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END-OF-TERM 1 STUDY BOOKLET

# Mathematics

## Grade 4 · Reveal Curriculum

**25 questions** • **20 multiple choice** • **5 free response** • **No calculator**

⭐ **My self-evaluation** After studying, color the stars and write a note

**My confidence:** I need practice ☆ ☆ ☆ ☆ ☆ I've got this!

**My note:** _____

**Student name:** _____ **Class:** _____

Prepared by **Ms. Roba Maawia**

★ **A star means the exam coverage points to this exact kind of exercise — practise it twice!**

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1

Question 1 of 25 · Place Value & Numbers

# 1 Value of a Digit in Any Place

Multiple choice  Book p. 35

## ✏️ Worked example

**What is the value of each digit in 98,124?**

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|
| | 9 | 8 | 1 | 2 | 4 |

9 is in the ten thousands → 90,000 • 8 is in the thousands → 8,000 • 1 is in the hundreds → 100 • 2 is in the tens → 20 • 4 is in the ones → 4

Moving one place to the left makes a digit worth 10 times as much. (The 8 in 8,000 is worth 10 times the 8 in 800.)

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.35 · Ex 1

What is the **value** of the digit **4** in 1,489?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 4 | **B** | 400 | **C** | 4,000 | **D** | 40 |

### Practice 2
Book p.35 · Ex 1

What is the **value** of the digit **1** in 1,489?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 1 | **B** | 10,000 | **C** | 100 | **D** | 1,000 |

### Practice 3
Book p.35 · Ex 1

What is the **value** of the digit **8** in 1,489?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 80 | **B** | 8 | **C** | 800 | **D** | 8,000 |

### Practice 4
Book p.35 · Ex 2

What is the **value** of the digit **9** in 98,124?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 9 | **B** | 900,000 | **C** | 90,000 | **D** | 9,000 |

### Practice 5
Book p.35 · Ex 2

What is the **value** of the digit **8** in 98,124?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 8 | **B** | 80,000 | **C** | 8,000 | **D** | 800 |

### Practice 6
Book p.35 · Ex 2

What is the **value** of the digit **2** in 98,124?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 20 | **B** | 2 | **C** | 200 | **D** | 2,000 |

### Practice 7

What are the **place** and **value** of the underlined digit in 62,468?

| | | | |
|---|---|---|---|
| **A** | ten thousands, 20,000 | **B** | thousands, 2 |
| **C** | hundreds, 200 | **D** | thousands, 2,000 |

### Practice 8

What are the **place** and **value** of the underlined digit in 2,905,146?

| | | | |
|---|---|---|---|
| **A** | hundred thousands, 200,000 | **B** | millions, 2,000,000 |
| **C** | millions, 2 | **D** | hundred thousands, 2 |

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**Question 1 Value of a Digit in Any Place** (continued)



### Practice 9

Book p.35 · Ex 3

How can you describe the relationship between the values of the underlined digits in 2̲58 and 2̲,180?

| | |
|---|---|
| A | The value of the first underlined digit is 10 times the value of the second |
| B | The two underlined digits have the same value |
| C | The value of the second underlined digit is 100 times the value of the first |
| D | The value of the second underlined digit is 10 times the value of the first |

### Practice 10

Book p.35 · Ex 4

How can you describe the relationship between the values of the underlined digits in 1̲6,852 and 14,6̲74?

| | |
|---|---|
| A | The value of the second underlined digit is 10 times the value of the first |
| B | The value of the first underlined digit is 10 times the value of the second |
| C | The two underlined digits have the same value |
| D | The value of the first underlined digit is 100 times the value of the second |

### Practice 11

Book p.35 · Ex 5

How can you describe the relationship between the values of the underlined digits in 1̲2,184 and 54̲1,247?

| | |
|---|---|
| A | The value of the first underlined digit is 10 times the value of the second |
| B | The value of the second underlined digit is 10 times the value of the first |
| C | The two underlined digits have the same value |
| D | The value of the first underlined digit is 100 times the value of the second |

### Practice 12

Book p.35 · Ex 6

How can you describe the relationship between the values of the underlined digits in 45̲3 and 1,33̲3?

| | |
|---|---|
| A | The value of the first underlined digit is 10 times the value of the second |
| B | The two underlined digits have the same value |
| C | The value of the second underlined digit is 10 times the value of the first |
| D | The value of the second underlined digit is 100 times the value of the first |

2

Question 2 of 25 · Place Value & Numbers

# 2 Word Form → Standard Form

Multiple choice  Book pp. 38–39

This place-value chart shows nine positions. It has three groupings. Each grouping is a **period**.

Each period has the same three places.

| Millions Period | | | Thousands Period | | | Ones Period | | |
|---|---|---|---|---|---|---|---|---|
| hundreds | tens | ones | hundreds | tens | ones | hundreds | tens | ones |
| | | 1 | 5 | 7 | 6 | 5 | 9 | 6 |

**Word Form**
One million, five hundred seventy-six thousand, five hundred ninety-six

**Standard Form** 1,576,596

A comma separates the periods.

**Expanded Form** 1,000,000 + 500,000 + 70,000 + 6,000 + 500 + 90 + 6

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.39 · Ex 1

Which number is **four hundred thousand, nine hundred thirty**?

| A | 4,930 | B | 400,930 | C | 400,093 | D | 40,930 |
|---|---|---|---|---|---|---|---|

### Practice 2
Book p.39 · Ex 2

Which number is **thirty-four thousand, nine hundred eighty-nine**?

| A | 304,989 | B | 34,098 | C | 34,899 | D | 34,989 |
|---|---|---|---|---|---|---|---|

### Practice 3
Book p.38 · Learn

Which number is **one million, five hundred seventy-six thousand, five hundred ninety-six**?

| A | 1,576,596 | B | 1,567,596 | C | 1,056,596 | D | 157,596 |
|---|---|---|---|---|---|---|---|

### Practice 4

Which number is **seven hundred thirty-six thousand, nine hundred two**?

| A | 736,092 | B | 73,692 | C | 736,902 | D | 736,920 |
|---|---|---|---|---|---|---|---|

### Practice 5

Which number is **two hundred five thousand, forty**?

| A | 205,400 | B | 25,040 | C | 205,040 | D | 205,004 |
|---|---|---|---|---|---|---|---|

### Practice 6

Which number is **ninety thousand, eight**?

| A | 90,008 | B | 90,080 | C | 9,008 | D | 90,800 |
|---|---|---|---|---|---|---|---|

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Question 3 of 25 · Place Value & Numbers

# 3 Standard Form → Word & Expanded Form

Multiple choice  Book pp. 39–40

## ✏️ Worked example

**Write 530,879 in all three forms.**

**Standard form** = the number written with digits: 530,879

**Expanded form** = add the value of each digit: 500,000 + 30,000 + 800 + 70 + 9

**Word form** = say the number in words: *five hundred thirty thousand, eight hundred seventy-nine*

**Part 1** Circle the letter of the one correct answer.

### Practice 1 ★

Book p.39 · Ex 5

Which is the word form of **205,782**?

| | | | |
|---|---|---|---|
| A | two hundred fifty thousand, seven hundred eighty-two | B | two hundred five thousand, seven hundred twenty-eight |
| C | two hundred fifteen thousand, seven hundred eighty-two | D | two hundred five thousand, seven hundred eighty-two |

### Practice 2 ★

Book p.39 · Ex 6

Which is the word form of **1,108,308**?

| | |
|---|---|
| A | one million, one hundred eighty thousand, three hundred eight |
| B | one million, one hundred eight thousand, three hundred eight |
| C | one million, one hundred eight thousand, three hundred eighty |
| D | one million, one hundred eight thousand, thirty-eight |

### Practice 3

Book p.40 · Ex 8

Which row shows **405,832** in expanded form and word form?

| | |
|---|---|
| A | 400,000 + 5,000 + 800 + 30 + 2<br>four hundred five thousand, eight hundred thirty-two |
| B | 400,000 + 50,000 + 800 + 30 + 2<br>four hundred fifty thousand, eight hundred thirty-two |
| C | 400,000 + 5,000 + 800 + 30 + 2<br>four hundred five thousand, eight hundred three |
| D | 40,000 + 5,000 + 800 + 30 + 2<br>forty-five thousand, eight hundred thirty-two |

### Practice 4

Book p.40 · Ex 9

Which row shows **500,000 + 30,000 + 9,000 + 10 + 5** in standard form and word form?

| | |
|---|---|
| A | 539,150<br>five hundred thirty-nine thousand, one hundred fifty |
| B | 593,015<br>five hundred ninety-three thousand, fifteen |
| C | 539,015<br>five hundred thirty-nine thousand, fifteen |
| D | 539,105<br>five hundred thirty-nine thousand, one hundred five |

### Practice 5

Book p.40 · Ex 10

Which row shows **six hundred ten thousand, four hundred sixteen** in standard form and expanded form?

| | | | |
|---|---|---|---|
| A | 61,416<br>60,000 + 1,000 + 400 + 10 + 6 | B | 610,416<br>600,000 + 10,000 + 400 + 16 |
| C | 601,416<br>600,000 + 1,000 + 400 + 10 + 6 | D | 610,416<br>600,000 + 10,000 + 400 + 10 + 6 |

**Question 3** **Standard Form → Word & Expanded Form** (continued)



**Practice 6** Book p.40 · Ex 11 (Extend Your Thinking)

How is the word form of **245,007** similar to the word form of **700,245**?

| | |
|---|---|
| A | They are the same number |
| B | They use the same number words, but in a different order, because the same digits are in different places |
| C | They both have 7 in the ten thousands place |
| D | They have the same value |

**Practice 7** Book p.40 · Ex 12

Which words and numbers complete all three forms of the same number?
Word form: ___ thousand, ___ eight  Expanded: ___ + 400 + ___  Standard: 6_,___

| | | | |
|---|---|---|---|
| A | sixty; four<br>6,000; 8<br>6,408 | B | sixty; four hundred<br>60,000; 8<br>60,408 |
| C | six; four hundred<br>6,000; 80<br>6,480 | D | sixty; four hundred<br>60,000; 80<br>60,480 |

**Practice 8**

Which is the expanded form of **306,040**?

| | | | |
|---|---|---|---|
| A | 300,000 + 600 + 40 | B | 30,000 + 6,000 + 40 |
| C | 300,000 + 6,000 + 400 | D | 300,000 + 6,000 + 40 |

**Practice 9**

Which is the word form of **90,009**?

| | | | |
|---|---|---|---|
| A | ninety thousand, nine | B | nine thousand, ninety |
| C | ninety thousand, ninety | D | nine thousand, nine |

**Practice 10**

Which is the standard form and word form of **700,000 + 4,000 + 30 + 2**?

| | | | |
|---|---|---|---|
| A | 740,032<br>seven hundred forty thousand, thirty-two | B | 704,032<br>seven hundred four thousand, three hundred two |
| C | 704,032<br>seven hundred four thousand, thirty-two | D | 700,432<br>seven hundred thousand, four hundred thirty-two |

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Question 4 of 25 · Place Value & Numbers

# 4 Rounding Multi-Digit Numbers

Multiple choice | Book pp. 46–47

## 🔑 Key words

round | rounding | estimate | about

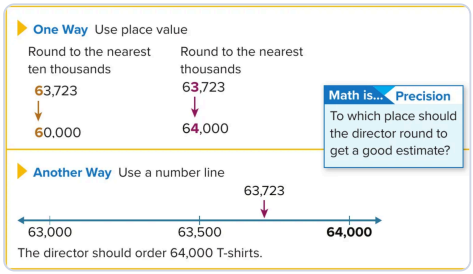
All of these words mean: **find a CLOSE answer — NOT an exact answer.**

## ➡️ Which way do I round? Look at the digit to the right

| Digit to the right is | 0 1 2 3 4 | 5 6 7 8 9 |
|---|---|---|
| What do you do? | STAY the same (round down) | GO UP by one (round up) |

## ✏️ Worked example

**Learn (book p. 46): the same number, rounded to two different places**




**Nearest ten thousand: 63,723 → the digit to the right of the 6 is 3 → stay → 60,000**

**Nearest thousand: 63,723 → the digit to the right of the 3 is 7 → round up → 64,000**

## 📝 Remember!

~~× Leaving digits after the place unchanged~~

✓ Replace them with zeros

Rounded numbers end in zeros.

**Part 1** Circle the letter of the one correct answer.

### Practice 1

Book p.46 · Learn (same number, 1st place)

Round **63,723** to the nearest **ten thousand**.

| A | 70,000 | B | 100,000 | C | 60,000 | D | 64,000 |
|---|---|---|---|---|---|---|---|

### Practice 2

Book p.46 · Learn (same number, 2nd place)

Round **63,723** to the nearest **thousand**.

| A | 64,000 | B | 63,000 | C | 60,000 | D | 63,700 |
|---|---|---|---|---|---|---|---|

### Practice 3

Book p.47 · Ex 1

Round **478,309** to the nearest **thousand**.

| A | 479,000 | B | 480,000 | C | 478,300 | D | 478,000 |
|---|---|---|---|---|---|---|---|

### Practice 4

Book p.47 · Ex 2

Round **105,201** to the nearest **hundred thousand**.

| A | 200,000 | B | 100,000 | C | 110,000 | D | 1,100,000 |
|---|---|---|---|---|---|---|---|

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## Question 4 — Rounding Multi-Digit Numbers (continued)

### Practice 5
Book p.47 · Ex 3

Round **95,550** to the nearest **ten thousand**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 100,000 | B | 90,000 | C | 96,000 | D | 200,000 |

### Practice 6
Book p.47 · Ex 4

Round **132,847** to the nearest **thousand**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 132,000 | B | 130,000 | C | 133,000 | D | 132,800 |

### Practice 7
Book p.47 · Ex 5

Denali National Park has **about 650,000** visitors each year. Which could be the **actual** number of visitors?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 640,495 | B | 659,812 | C | 655,000 | D | 647,382 |

### Practice 8
Book p.47 · Ex 6a

The moon is **238,855 miles** from Earth. **About** how many miles will astronauts travel there **and back**? (Round 238,855 to the nearest ten thousand first.)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 477,710 | B | 480,000 | C | 460,000 | D | 500,000 |

### Practice 9
Book p.47 · Ex 6b (How accurate?)

Which word in a problem tells you to ROUND?

| | | | |
|---|---|---|---|
| A | exactly | B | about |
| C | total | D | difference |

### Practice 10

Round **3,847** to the nearest **ten**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 3,840 | B | 3,800 | C | 3,847 | D | 3,850 |

### Practice 11

Round **6,250** to the nearest **hundred**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 6,300 | B | 6,200 | C | 6,000 | D | 6,250 |

### Practice 12

Round **749,603** to the nearest **hundred thousand**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 800,000 | B | 1,000,000 | C | 700,000 | D | 750,000 |

### Practice 13

A stadium holds 38,642 fans. **About** how many fans is that, rounded to the nearest **thousand**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 38,000 | B | 38,600 | C | 39,000 | D | 40,000 |

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5

Question 5 of 25 · Place Value & Numbers

# 5 Estimating Sums and Differences

Multiple choice | Book pp. 60–61

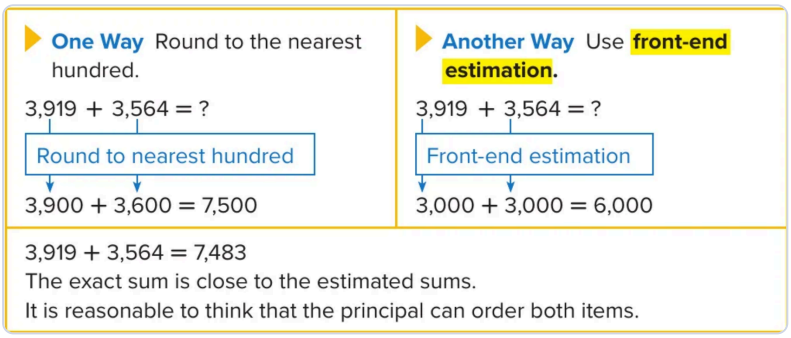
## ⭐ Golden rule

An estimate is a **quick answer that is close** to the exact answer. We use **two methods** in this lesson: ① **rounding** and ② **front-end estimation**. Then add or subtract the friendly numbers.

🎵 A rhyme to remember Method ② — front-end estimation only

**"Front is first, zeros to the rest, do the math, you are the best!"**

| | | |
|---|---|---|
| **Front is first** → keep the FRONT digit | **Zeros to the rest** → every other digit becomes 0 | **Do the math** → add or subtract the new numbers |




## ✏️ Worked example

**Estimate 3,919 + 3,564 — two ways**

**Method 1 — Rounding (to the nearest hundred)**
3,919 → 3,900  3,564 → 3,600
3,900 + 3,600 = 7,500

**Method 2 — Front-end estimation**
Keep the front digit, make the rest zeros:
3,919 → 3,000  3,564 → 3,000
3,000 + 3,000 = 6,000

**The exact sum is 7,483. Both estimates are close, so both are reasonable.**

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.60 · Learn — rounding

Estimate 3,919 + 3,564 by **rounding** each number to the nearest **hundred**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 7,500 | **B** | 7,483 | **C** | 6,000 | **D** | 7,600 |

### Practice 2
Book p.60 · Learn — front-end

Use **front-end estimation** to estimate 3,919 + 3,564.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 7,483 | **B** | 7,500 | **C** | 7,000 | **D** | 6,000 |

### Practice 3
Book p.61 · Ex 1

Estimate 12,258 + 14,926 by **rounding** each number to the nearest **thousand**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 27,184 | **B** | 27,000 | **C** | 20,000 | **D** | 28,000 |

### Practice 4
Book p.61 · Ex 2

Estimate 5,246 – 392 by **rounding** each number to the nearest **hundred**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 4,800 | **B** | 4,854 | **C** | 4,700 | **D** | 4,900 |

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## Question 5 Estimating Sums and Differences (continued)



### Practice 5
Book p.61 · Ex 3 — rounding

Estimate 8,303 – 2,789 by **rounding** each number to the nearest **thousand**.

| A | 5,514 | B | 6,000 | C | 5,000 | D | 4,000 |
|---|---|---|---|---|---|---|---|

### Practice 6
Book p.61 · Ex 3 — front-end

Use **front-end estimation** to estimate 8,303 – 2,789.

| A | 5,514 | B | 5,500 | C | 7,000 | D | 6,000 |
|---|---|---|---|---|---|---|---|

### Practice 7
Book p.61 · Ex 4

Estimate 3,783 + 1,416 by **rounding** each number to the nearest **hundred**.

| A | 5,199 | B | 5,200 | C | 4,000 | D | 5,300 |
|---|---|---|---|---|---|---|---|

### Practice 8
Book p.61 · Ex 5 — front-end

Use **front-end estimation** to estimate 3,155 + 2,205.

| A | 5,360 | B | 5,000 | C | 5,400 | D | 6,000 |
|---|---|---|---|---|---|---|---|

### Practice 9
Book p.61 · Ex 6 — rounding

Estimate 9,875 – 4,968 by **rounding** each number to the nearest **thousand**.

| A | 4,907 | B | 6,000 | C | 4,000 | D | 5,000 |
|---|---|---|---|---|---|---|---|

### Practice 10
Book p.61 · Ex 6 — front-end

Use **front-end estimation** to estimate 9,875 – 4,968.

| A | 5,000 | B | 4,907 | C | 4,900 | D | 6,000 |
|---|---|---|---|---|---|---|---|

### Practice 11
Book p.61 · Ex 7

Estimate 4,228 + 986 by **rounding** each number to the nearest **hundred**.

| A | 5,214 | B | 4,900 | C | 5,200 | D | 5,300 |
|---|---|---|---|---|---|---|---|

### Practice 12
Book p.61 · Ex 8

Estimate 2,352 + 8,761 by **rounding** each number to the nearest **thousand**.

| A | 11,113 | B | 10,000 | C | 11,000 | D | 12,000 |
|---|---|---|---|---|---|---|---|

### Practice 13
Book p.61 · Ex 1 — front-end

Use **front-end estimation** to estimate 12,258 + 14,926.

| A | 20,000 | B | 27,184 | C | 27,000 | D | 30,000 |
|---|---|---|---|---|---|---|---|

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Question 6 of 25 · Addition & Subtraction

# 6 Adding by Partial Sums or by Adjusting

Multiple choice  Book pp. 66–67

## ⭐ Golden rule

Two strategies to add big numbers in your head or on paper:

① **Partial sums:** add each place (ones, tens, hundreds…) separately, then add the partial sums.

② **Adjust the numbers:** make one number friendly, then change the other number so the total stays the same.

**WHAT YOU TAKE FROM ONE NUMBER, YOU GIVE TO THE OTHER NUMBER!**

**1,613 – 3 = 1,610 and 1,297 + 3 = 1,300 → the total stays 2,910**

## 📸 From your book (Learn, page 66)

**One Way** Add using **partial sums**.

| | | |
|---|---|---|
| | | 1,613 |
| | | + 1,297 |
| Add the ones | 3 + 7 → | 10 |
| Add the tens | 10 + 90 → | 100 |
| Add the hundreds | 600 + 200 → | 800 |
| Add the thousands | 1,000 + 1,000 → | 2,000 |
| Add the partial sums. | | 2,910 |

Partial sums

**Another Way** Add by adjusting the numbers.

1,613 + 1,297

−3  +3

1,610 + 1,300 = 2,910

**Math is… Structure**

How can you use place-value structure to help add numbers?

## ⚠️ Hazard! Careful!

~~× 1,613 + 1,297 → (1,613 + 3) + (1,297 + 3)~~

✓ (1,613 − 3) + (1,297 + 3)

Take away from one number what you add to the other.

## ✏️ Worked example

**1,613 + 1,297**

**Partial sums**

ones: 3 + 7 = 10

tens: 10 + 90 = 100

hundreds: 600 + 200 = 800

thousands: 1,000 + 1,000 = 2,000

10 + 100 + 800 + 2,000 = 2,910

**Adjusting**

1,613 − 3 = 1,610  1,297 + 3 = 1,300

1,610 + 1,300 = 2,910

*(what you take from one number you give to the other)*

**Part 1** Circle the letter of the one correct answer.

**Practice 1** Book p.66 · Learn

In the partial-sums method for 1,613 + 1,297, what do you do to **add the tens**?

| | | | |
|---|---|---|---|
| A | Add 1 + 9 = 10 | B | Add 60 + 20 = 80 |
| C | Add 600 + 200 = 800 | D | Add 10 + 90 = 100 |

**Practice 2** Book p.66 · Learn

To add 1,613 + 1,297 by **adjusting**, which equation is used?

| | | | |
|---|---|---|---|
| A | 1,616 + 1,300 | B | 1,610 + 1,300 |
| C | 1,610 + 1,294 | D | 1,613 + 1,300 |

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## Question 6 Adding by Partial Sums or by Adjusting (continued)

### Practice 3
Book p.67 · Ex 1

Which equation shows **adjusting** to find **2,582 + 493**?

| | | | |
|---|---|---|---|
| **A** | 2,575 + 500 | **B** | 2,589 + 500 |
| **C** | 2,575 + 507 | **D** | 2,582 + 500 |

### Practice 4
Book p.67 · Ex 2

Using **partial sums** for **476 + 8,719**, which are the partial sums?

| | | | |
|---|---|---|---|
| **A** | 15, 80, 11 and 8,000 | **B** | 13, 80, 1,100 and 8,000 |
| **C** | 15, 80, 1,100 and 8,000 | **D** | 15, 800, 1,100 and 8,000 |

### Practice 5
Book p.67 · Ex 3

Which equation shows **adjusting** to find **1,945 + 3,289**?

| | | | |
|---|---|---|---|
| **A** | 2,000 + 3,344 | **B** | 1,990 + 3,234 |
| **C** | 2,055 + 3,289 | **D** | 2,000 + 3,234 |

### Practice 6
Book p.67 · Ex 4

**12,017 + 5,308** by partial sums: 15 + 10 + 300 + 7,000 + 10,000. What is the sum?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 17,315 | **B** | 17,325 | **C** | 17,425 | **D** | 7,325 |

### Practice 7
Book p.67 · Ex 5

Which shows **26,118 + 11,043** broken into place-value parts (partial sums)?

| | |
|---|---|
| **A** | (20,000 + 1,000) + (6,000 + 1,000) + (100 + 0) + (10 + 40) + (8 + 3) |
| **B** | (20,000 + 10,000) + (6,000 + 1,000) + (100 + 0) + (10 + 40) + (8 + 3) |
| **C** | (20,000 + 10,000) + (600 + 100) + (10 + 4) + (8 + 3) |
| **D** | (2,000 + 1,000) + (6,000 + 1,000) + (100 + 0) + (10 + 4) + (8 + 3) |

### Practice 8
Book p.67 · Ex 6

Which equation shows **adjusting** to find **47,621 + 21,345**?

| | | | |
|---|---|---|---|
| **A** | 47,966 + 21,345 | **B** | 47,276 + 21,000 |
| **C** | 47,621 + 21,000 | **D** | 47,966 + 21,000 |

### Practice 9
Book p.67 · Ex 7

The partial sums for **101,253 + 27,285** are 8, 130, 400, 8,000, 20,000 and 100,000. What is the sum?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 128,538 | **B** | 128,438 | **C** | 127,538 | **D** | 228,538 |

### Practice 10
Book p.67 · Ex 8

An indoor water park had **10,242** visitors in January and **11,495** in February. Which adjusting equation helps find the total attendance?

| | | | |
|---|---|---|---|
| **A** | 10,247 + 11,500 | **B** | 10,242 + 11,500 |
| **C** | 10,237 + 11,500 | **D** | 10,237 + 11,495 |

### Practice 11
Book p.66 · Learn

Why do we subtract 3 from 1,613 when we add 3 to 1,297?

| | | | |
|---|---|---|---|
| **A** | So the numbers get bigger | **B** | Because 3 is a friendly number |
| **C** | So the total stays the same | **D** | To make the sum smaller |

Question 7 of 25 · Addition & Subtraction

# 7 Standard Addition Algorithm (Aligning Digits)

Multiple choice | Book pp. 70–71

## From your book (Learn, page 70)

**One Way** Use partial sums. Add by place value.

2,654
+ 1,243
7
90
800
3,000
3,897

**Another Way** Use an **algorithm**. Add by place value starting with the ones.

| | | | |
|---|---|---|---|
| 2, | 6 | 5 | 4 |
| + 1, | 2 | 4 | 3 |
| 3, | 8 | 9 | 7 |

Math is... Structure

**Start here!**
Always start the addition from the RIGHT — begin with the ones, then tens, then hundreds...

## Worked example

**Dominic's kitten weighed 2,654 g. It is now 1,243 g heavier. How much does it weigh?**

$$\begin{array}{r} 2,654 \\ +\ 1,243 \\ \hline 3,897 \end{array}$$

Ones 4 + 3 = 7 • Tens 5 + 4 = 9 • Hundreds 6 + 2 = 8 • Thousands 2 + 1 = 3 → 3,897 g

**Part 1** Circle the letter of the one correct answer.

### Practice 1 ★

Book p.70 · Work Together

Mabel and Maderia added **235 and 34** with an algorithm.

**Mabel**

$$\begin{array}{r} 235 \\ +\ 34 \\ \hline 575 \end{array}$$

**Maderia**

$$\begin{array}{r} 235 \\ +\ 34 \\ \hline 269 \end{array}$$

Who added **incorrectly**?

| | | | |
|---|---|---|---|
| A | Mabel | B | Maderia |
| C | Both of them | D | Neither of them |

### Practice 2 ★

Book p.70 · Work Together

What was Mabel's mistake when she added 235 + 34?

| | | | |
|---|---|---|---|
| A | She added the ones wrongly | B | She started from the left |
| C | She forgot to subtract | D | She did not line up the digits by place value |

### Practice 3

Book p.71 · Ex 7

A business bought a copier for **$1,217** and a laptop for **$761**. How much did it spend on both items? Use an algorithm.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | $1,968 | B | $1,878 | C | $1,978 | D | $1,988 |

### Practice 4

Book p.71 · Ex 8

A factory made **64,457** car parts in the first three weeks and **3,502** in the fourth week. How many car parts did it make in the four weeks?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 67,859 | B | 68,959 | C | 67,959 | D | 64,959 |

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**Question 7** **Standard Addition Algorithm (Aligning Digits)** (continued)



### Practice 5
Variation of Work Together

Sami and Lina added **4,126 + 53**.

**Sami**

$$\begin{array}{r} 4,126 \\ +\quad 53 \\ \hline 4,179 \end{array}$$

**Lina**

$$\begin{array}{r} 4,126 \\ +\quad 53 \\ \hline 4,656 \end{array}$$

Who added correctly?

| | | | |
|---|---|---|---|
| **A** | Lina | **B** | Sami |
| **C** | Both of them | **D** | Neither of them |

### Practice 6
Variation of Work Together

Which shows **3,456 + 72** lined up correctly?

**A**

$$\begin{array}{r} 3,456 \\ +\quad 72 \\ \hline \end{array}$$

**B**

$$\begin{array}{r} 3,456 \\ +\quad 72 \\ \hline \end{array}$$

**C**

$$\begin{array}{r} 3,456 \\ +7,2 \\ \hline \end{array}$$

**D**

$$\begin{array}{r} 3,456 \\ +72, \\ \hline \end{array}$$

### Practice 7
Book p.71 · Ex 1

Find the sum.

$$\begin{array}{r} 4380 \\ +\quad 612 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 5,002 | **B** | 4,982 | **C** | 4,992 | **D** | 5,092 |

### Practice 8
Book p.71 · Ex 2

Find the sum.

$$\begin{array}{r} 12943 \\ +\quad 4036 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 16,989 | **B** | 17,079 | **C** | 16,879 | **D** | 16,979 |

### Practice 9
Book p.71 · Ex 3

Line up the digits and add: **42,818 + 7,120**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 50,038 | **B** | 49,938 | **C** | 49,838 | **D** | 50,938 |

### Practice 10
Book p.71 · Ex 4

Find the sum.

$$\begin{array}{r} 8405 \\ +\ 1571 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 9,986 | **B** | 9,976 | **C** | 9,966 | **D** | 10,076 |

### Practice 11
Book p.71 · Ex 5

Line up the digits and add: **7,364 + 2,321**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 9,785 | **B** | 9,695 | **C** | 9,675 | **D** | 9,685 |

### Practice 12
Book p.71 · Ex 6

Find the sum.

$$\begin{array}{r} 4129 \\ +\ 2530 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 6,659 | **B** | 6,669 | **C** | 6,649 | **D** | 6,759 |

### Practice 13
Book p.71 · Ex 9

Aria adds **64,203 + 23,562** with partial sums: 5 + 60 + 700 + 7,000 + 80,000 ... what is the sum?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 87,765 | **B** | 87,665 | **C** | 86,765 | **D** | 87,755 |

8

Question 8 of 25 · Addition & Subtraction

# 8 Subtracting by Decomposing or by Adjusting

Multiple choice  Book pp. 78–79

## ⭐ Golden rule

Two strategies to subtract:
① **Decompose** the number you are subtracting (6,298 = 6,000 + 200 + 90 + 8) and subtract the parts one at a time.
② **Adjust** both numbers by the **same** amount (add the same to both, or take the same from both). The difference stays the same.

## 📸 From your book (Learn, page 78)

**One Way** Use place value to subtract.

Decompose the number you are subtracting. Then subtract the parts.

6,298 = 6,000 + 200 + 90 + 8
9,856 − 6,000 = 3,856
3,856 − 200 = 3,656
3,656 − 90 = 3,566
3,566 − 8 = 3,558

**Another Way** Adjust the numbers to make them easier to subtract.

9,856 − 6,298 = ?
+2  +2
9,858 − 6,300 = 3,558

**Math is... Explaining**
What do you need to consider when adjusting numbers to subtract?

⚠️ **Don't mix them up!**
~~× Adding 2 to one and taking 2 from the other~~
✓ +2 to both (or −2 from both)
That is the rule for ADDITION, not subtraction.

## ✏️ Worked example

**9,856 − 6,298**

**Decompose**
9,856 − 6,000 = 3,856
3,856 − 200 = 3,656
3,656 − 90 = 3,566
3,566 − 8 = 3,558

**Adjust**
+2 to both numbers:
9,858 − 6,300 = 3,558
*(the gap between the numbers stays the same)*

**Part 1** Circle the letter of the one correct answer.

### Practice 1 — Book p.79 · Ex 1

**Decompose** to find **2,532 − 1,301**. Which shows the correct steps?

| | |
|---|---|
| A | 2,532 − 1,000 = 1,532; 1,532 − 300 = 1,232; 1,232 − 10 = 1,222 |
| B | 2,532 − 100 = 2,432; 2,432 − 30 = 2,402; 2,402 − 1 = 2,401 |
| C | 2,532 − 1,000 = 1,532; 1,532 − 30 = 1,502; 1,502 − 1 = 1,501 |
| D | 2,532 − 1,000 = 1,532; 1,532 − 300 = 1,232; 1,232 − 1 = 1,231 |

### Practice 2 — Book p.79 · Ex 2

**6,489 − 2,472**: decompose 2,472 into place-value parts. Which is correct?

| | | | |
|---|---|---|---|
| A | 2,000 + 40 + 70 + 2 | B | 2,000 + 400 + 70 + 2 |
| C | 200 + 400 + 70 + 2 | D | 2,000 + 400 + 7 + 2 |

🔥 Enjoy the challenge — you're a champion!

**Question 8** **Subtracting by Decomposing or by Adjusting** (continued)



### Practice 3
Book p.79 · Ex 3

**Decompose** to find **8,018 – 7,659**: 8,018 – 7,000 = 1,018; 1,018 – 600 = 418; 418 – 50 = 368; 368 – 9 = ?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 359 | **B** | 369 | **C** | 349 | **D** | 458 |

### Practice 4
Book p.79 · Ex 4

**Decompose** to find **11,023 – 1,414**. What is the difference?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 9,619 | **B** | 9,709 | **C** | 9,609 | **D** | 10,609 |

### Practice 5
Book p.79 · Ex 5

Which equation shows **adjusting** to find **12,469 – 10,212**?

| | | | |
|---|---|---|---|
| **A** | 12,681 – 10,000 | **B** | 12,257 – 10,212 |
| **C** | 12,469 – 10,000 | **D** | 12,257 – 10,000 |

### Practice 6
Book p.79 · Ex 6

Which equation shows **adjusting** to find **97,137 – 24,677**?

| | | | |
|---|---|---|---|
| **A** | 97,460 – 24,677 | **B** | 97,460 – 25,000 |
| **C** | 96,814 – 25,000 | **D** | 97,137 – 25,000 |

### Practice 7
Book p.79 · Ex 7

Which equation shows **adjusting** to find **46,597 – 4,267**?

| | | | |
|---|---|---|---|
| **A** | 46,864 – 4,000 | **B** | 46,330 – 4,000 |
| **C** | 46,330 – 4,267 | **D** | 46,597 – 4,000 |

### Practice 8
Book p.79 · Ex 8

**Adjust** to find **84,649 – 126**. Which adjusted equation is correct, and what is the difference?

| | | | |
|---|---|---|---|
| **A** | 84,675 – 100 = 84,575 | **B** | 84,623 – 126 = 84,497 |
| **C** | 84,649 – 100 = 84,549 | **D** | 84,623 – 100 = 84,523 |

### Practice 9
Book p.78 · Learn

To find 9,856 – 6,298 by adjusting, the book adds 2 to both numbers. Which equation does it make?

| | | | |
|---|---|---|---|
| **A** | 9,858 – 6,300 | **B** | 9,858 – 6,298 |
| **C** | 9,854 – 6,300 | **D** | 9,856 – 6,300 |

### Practice 10
Book p.78 · Learn

In an election, 9,856 people voted and the new mayor got 6,298 votes. Which first step **decomposes** 6,298?

| | | | |
|---|---|---|---|
| **A** | 9,856 – 6,298 | **B** | 9,856 – 600 |
| **C** | 9,856 – 6,000 | **D** | 9,856 – 200 |

### Practice 11

Which pair of numbers has the **same difference** as 503 – 298?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 505 – 296 | **B** | 501 – 300 | **C** | 505 – 300 | **D** | 503 – 300 |

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9

Question 9 of 25 · Addition & Subtraction

# 9 Standard Subtraction Algorithm (No Regrouping)

Multiple choice | Book p. 83

## ✏️ Worked example

**Addie's family drives 1,387 miles. They drove 365 miles on day one. How many miles are left?**

$$\begin{array}{r} 1,387 \\ -\ \ 365 \\ \hline 1,022 \end{array}$$

7 − 5 = 2 • 8 − 6 = 2 • 3 − 3 = 0 • 1 − 0 = 1 → 1,022 miles

Check: 1,022 + 365 = 1,387 ✓

**Part 1** Circle the letter of the one correct answer.

### Practice 1

Book p.83 · Ex 1

Find the difference.

$$\begin{array}{r} 1558 \\ -\ \ 247 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 1,311 | B | 1,805 | C | 1,321 | D | 1,301 |

### Practice 2

Book p.83 · Ex 2

Find the difference.

$$\begin{array}{r} 53720 \\ -\ 33400 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 87,120 | B | 20,420 | C | 20,220 | D | 20,320 |

### Practice 3

Book p.83 · Ex 3

Find the difference.

$$\begin{array}{r} 4964 \\ -\ 2803 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 7,767 | B | 2,161 | C | 2,171 | D | 2,151 |

### Practice 4

Book p.83 · Ex 4

Find the difference.

$$\begin{array}{r} 48579 \\ -\ \ 4222 \\ \hline \end{array}$$

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 44,357 | B | 52,801 | C | 44,457 | D | 44,257 |

### Practice 5

Book p.83 · Ex 9

Addie and her family are driving to Florida to see her grandmother. The trip is **1,387 miles**. They drove **365 miles** the first day. How many miles do they have left to drive?

| | | | |
|---|---|---|---|
| A | 1,752 miles | B | 1,122 miles |
| C | 1,032 miles | D | 1,022 miles |

### Practice 6

Variation of Ex 9

A library had **2,850** books. It lent out **430** books. How many books are left on the shelves?

| | | | |
|---|---|---|---|
| A | 2,420 books | B | 3,280 books |
| C | 2,520 books | D | 2,430 books |

**Question 9** **Standard Subtraction Algorithm (No Regrouping)** (continued)



**Practice 7** Book p.83 · Ex 5

Find the difference.

$$\begin{array}{r} 12923 \\ -\ 10712 \\ \hline \end{array}$$

| A | 23,635 | B | 2,221 | C | 2,211 | D | 2,201 |
|---|---|---|---|---|---|---|---|

**Practice 8** Book p.83 · Ex 6

Find the difference.

$$\begin{array}{r} 2646 \\ -\ 1335 \\ \hline \end{array}$$

| A | 3,981 | B | 1,321 | C | 1,301 | D | 1,311 |
|---|---|---|---|---|---|---|---|

**Practice 9** Book p.83 · Ex 7

Find the difference.

$$\begin{array}{r} 7438 \\ -\ 5225 \\ \hline \end{array}$$

| A | 12,663 | B | 2,213 | C | 2,223 | D | 2,203 |
|---|---|---|---|---|---|---|---|

**Practice 10** Book p.83 · Ex 8

Find the difference.

$$\begin{array}{r} 267982 \\ -\ 132580 \\ \hline \end{array}$$

| A | 400,562 | B | 135,402 | C | 136,402 | D | 134,402 |
|---|---|---|---|---|---|---|---|

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10

Question 10 of 25 · Comparison, Factors & Patterns

# 10 Multiplicative Comparison Statements and Equations

Multiple choice | Book pp. 106–107

## From your book (Learn, page 106)

Stick A 2 cubes
Stick B 5 cubes
Stick C 10 cubes
Stick D 20 cubes

You can use multiplication to compare two quantities.

10 cubes 10 cubes
Stick C
Stick D 20 cubes

You can say that 20 is 2 *times as much as* 10.

This can be represented using the equation 20 = 2 × 10.

**Math is... Thinking**
How does the equation show the relationship?

Stick A
Stick D 20 cubes

You can say that 20 is 10 *times as much as* 2.

This can be represented using the equation 20 = 10 × 2.

### Think "groups"!

The small number = one group.
"times as much" = how many groups.
Big = groups × small

## Worked example

**Stick C has 10 cubes. Stick D has 20 cubes.**

C
D

**20 cubes = 2 groups of 10 cubes.**
**Statement: "20 is 2 times as much as 10." → Equation: 2 × 10 = 20**
**From the other side: Stick A has 2 cubes → 20 is 10 times as much as 2 → 10 × 2 = 20.**

**Part 1** Circle the letter of the one correct answer.

### Practice 1 — Book p.107 · Ex 1

**Which statement can be represented by 3 × 9 = 27?**

| | | | |
|---|---|---|---|
| A | 3 is 3 times as much as 27 | B | 27 is 9 times as much as 9 |
| C | 27 is 3 times as much as 9 | D | 3 is 9 times as much as 27 |

### Practice 2 — Book p.107 · Ex 2

**Which statement is true?**

| | | | |
|---|---|---|---|
| A | 9 is 2 times as much as 18 | B | 2 is 9 times as much as 18 |
| C | 18 is 2 times as much as 9 | D | 9 is 18 times as much as 2 |

### Practice 3 — Book p.106 · Learn

Stick C has 10 cubes and Stick D has 20 cubes. Which equation matches "20 is 2 times as much as 10"?

| | | | |
|---|---|---|---|
| A | 20 × 2 = 10 | B | 2 + 10 = 20 |
| C | 2 × 10 = 20 | D | 10 × 20 = 2 |

### Practice 4 — Book p.106 · Learn

Stick A has 2 cubes and Stick D has 20 cubes. Which statement matches **10 × 2 = 20**?

| | | | |
|---|---|---|---|
| A | 2 is 10 times as much as 20 | B | 20 is 2 times as much as 10 |
| C | 10 is 2 times as much as 20 | D | 20 is 10 times as much as 2 |

10

## Question 10 — Multiplicative Comparison Statements and Equations (continued)

### Practice 5
Book p.107 · Ex 2

**Which statement is also true?**

| | | | |
|---|---|---|---|
| **A** | 18 is 9 times as much as 2 | **B** | 2 is 9 times as much as 18 |
| **C** | 9 is 18 times as much as 2 | **D** | 18 is 2 times as much as 18 |

### Practice 6
Book p.107 · Ex 3

Look at the sticks.

**A** 

**B** 

Complete: "There are _ _ times as many cubes in Stick B as in Stick A."

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 2 | **B** | 4 | **C** | 6 | **D** | 3 |

### Practice 7
Book p.107 · Ex 4

Look at the sticks.

**A** 

**D** 

Which statement tells how the cubes compare?

| | | | |
|---|---|---|---|
| **A** | 10 is 2 times as many as 5 | **B** | 10 is 5 times as many as 2 |
| **C** | 2 is 5 times as many as 10 | **D** | 10 is 8 more than 2 |

### Practice 8
Book p.107 · Ex 5

**What equation represents "24 is 4 times as much as 6"?**

| | | | |
|---|---|---|---|
| **A** | 4 × 6 = 24 | **B** | 24 × 4 = 6 |
| **C** | 4 + 6 = 24 | **D** | 6 × 24 = 4 |

### Practice 9
Book p.106 · Work Together

Marvin has 5 water-park pins, 3 amusement-park pins and 15 wildlife-park pins. Which equation shows that he has **3 times as many** wildlife-park pins as water-park pins?

| | | | |
|---|---|---|---|
| **A** | 5 × 15 = 3 | **B** | 3 × 5 = 15 |
| **C** | 3 + 5 = 8 | **D** | 15 × 3 = 5 |

### Practice 10
Book p.106 · Work Together

Which statement matches **5 × 3 = 15** (15 wildlife-park pins, 3 amusement-park pins)?

| | | | |
|---|---|---|---|
| **A** | 3 is 5 times as many as 15 | **B** | 15 is 5 times as many as 3 |
| **C** | 15 is 3 times as many as 5 | **D** | 15 is 12 more than 3 |

### Practice 11

Which equation matches "56 is 7 times as much as 8"?

| | | | |
|---|---|---|---|
| **A** | 56 × 7 = 8 | **B** | 7 + 8 = 56 |
| **C** | 8 × 56 = 7 | **D** | 7 × 8 = 56 |

### Practice 12

Which statement matches **6 × 7 = 42**?

| | | | |
|---|---|---|---|
| **A** | 42 is 6 times as much as 7 | **B** | 7 is 6 times as much as 42 |
| **C** | 42 is 7 more than 6 | **D** | 6 is 7 times as much as 42 |

Question 11 of 25 · Comparison, Factors & Patterns

# 11 Comparing: Multiplication or Addition?

Multiple choice | Book pp. 110–111

## 🔑 Key words — which operation?

| | |
|---|---|
| more than ▪ fewer than ▪ less than ▪ how many more | ADD or SUBTRACT + – |
| times as many ▪ times as much ▪ times as long ▪ times as far ▪ times as tall | MULTIPLY × |

## 📸 From your book (Learn, page 110)

Jackson biked 6 miles. Karen biked 4 *more* miles than Jackson.

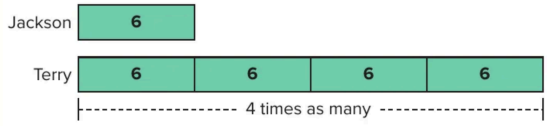



**Math is... Modeling**
How does the bar diagram represent the problem?

$6 + 4 = 10$ So, Karen biked 10 miles.

This is an additive comparison situation.

Jackson biked 6 miles. Terry biked 4 *times as many* miles as Jackson.




$4 \times 6 = 24$ So, Terry biked 24 miles.

This is a multiplicative comparison situation.

## ✏️ Worked example

**Jackson ran 6 miles.**
**Karen ran 4 more miles than Jackson → add: 6 + 4 = 10 miles.**
**Terry ran 4 times as many miles as Jackson → multiply: 4 × 6 = 24 miles.**

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.111 · Ex 1

Which equation shows **8 more than** 4?

| | | | |
|---|---|---|---|
| A | 4 × 8 = 32 | B | 8 – 4 = 4 |
| C | 4 + 8 = 12 | D | 8 × 8 = 64 |

### Practice 2
Book p.111 · Ex 2

Which equation shows **3 times as many as** 5?

| | | | |
|---|---|---|---|
| A | 3 + 5 = 8 | B | 5 – 3 = 2 |
| C | 3 × 5 = 15 | D | 5 × 5 = 25 |

### Practice 3
Book p.111 · Ex 3

Which equation shows **2 times as long as** 9 feet?

| | | | |
|---|---|---|---|
| A | 2 × 9 = 18 | B | 2 + 9 = 11 |
| C | 9 – 2 = 7 | D | 9 × 9 = 81 |

### Practice 4
Book p.111 · Ex 4

Which equation shows **5 times as far as** 10 miles?

| | | | |
|---|---|---|---|
| A | 5 + 10 = 15 | B | 10 – 5 = 5 |
| C | 10 × 10 = 100 | D | 5 × 10 = 50 |

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**Question 11 Comparing: Multiplication or Addition?** (continued)



### Practice 5
Book p.111 · Ex 5

A small bridge is 40 feet long. A new bridge is **3 times as long**. How long is the new bridge?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 43 feet | **B** | 120 feet | **C** | 37 feet | **D** | 13 feet |

### Practice 6
Book p.111 · Ex 6

Raya has 8 pencils. Miranda has 4 **more** pencils than Raya. How many pencils does Miranda have?

| | | | |
|---|---|---|---|
| **A** | 12 pencils | **B** | 32 pencils |
| **C** | 4 pencils | **D** | 2 pencils |

### Practice 7
Book p.111 · Ex 7

Louisa is 5 feet tall. A tree in her backyard is **4 times as tall** as Louisa. How tall is the tree?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 9 feet | **B** | 1 foot | **C** | 20 feet | **D** | 25 feet |

### Practice 8
Book p.110 · Work Together

Elliot scored 9 points. Michael scored **2 times as many** points as Elliot. How many points did Michael score?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 11 points | **B** | 7 points | **C** | 81 points | **D** | 18 points |

### Practice 9
Book p.110 · Work Together

Elliot scored 9 points. Deanna scored 6 **more** points than Elliot. How many points did Deanna score?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 54 points | **B** | 15 points | **C** | 3 points | **D** | 18 points |

### Practice 10

Which key words tell you to **multiply**?

| | | | |
|---|---|---|---|
| **A** | more than ▪ fewer than | **B** | times as many ▪ times as much |
| **C** | how many more ▪ less than | **D** | in all ▪ altogether |

### Practice 11

Which key words tell you to **add or subtract**?

| | | | |
|---|---|---|---|
| **A** | times as many | **B** | times as long |
| **C** | times as far | **D** | more than ▪ fewer than |

### Practice 12

Lila has 7 books. Sam has **5 times as many** books as Lila. Which equation shows the number of books Sam has?

| | | | |
|---|---|---|---|
| **A** | 5 × 7 = 35 | **B** | 5 + 7 = 12 |
| **C** | 7 – 5 = 2 | **D** | 7 × 7 = 49 |

12

Question 12 of 25 · Comparison, Factors & Patterns

# 12 Solving Multiplicative Comparison Problems

Multiple choice  Book p. 115

⭐ **Golden rule**

**Write a multiplication equation with a ? for the missing number.** Then use your times table to find it. No drawing needed!

"56 is ? times as much as 7" → **? × 7 = 56**

✏️ **Worked example**

**56 is ? times as much as 7.**
**Equation: ? × 7 = 56 → think: 7 × 8 = 56 → ? = 8.**

**Marie read 20 pages last week. This week she read 2 times as many. How many pages this week?**
**2 × 20 = 40 pages**

📝 **Remember!**

~~× Putting the unknown in the wrong place~~

✓ The big number is the product

? × 7 = 56 (not 7 × 56 = ?).

**Part 1** Circle the letter of the one correct answer.

**Practice 1** Book p.115 · Ex 1

**56 is ? times as much as 7.** Write a multiplication equation and solve.

| | | | |
|---|---|---|---|
| A | ? = 7 (7 × 7 = 49) | B | ? = 9 (9 × 7 = 63) |
| C | ? = 8 (8 × 7 = 56) | D | ? = 49 (56 – 7) |

**Practice 2** Book p.115 · Ex 2

**35 is 7 times as many as ?.** Write a multiplication equation and solve.

| | | | |
|---|---|---|---|
| A | ? = 28 (35 – 7) | B | ? = 245 (7 × 35) |
| C | ? = 5 (7 × 5 = 35) | D | ? = 6 (7 × 6 = 42) |

**Practice 3** Book p.115 · Ex 3

**24 is 8 times as many as ?.** Write a multiplication equation and solve.

| | | | |
|---|---|---|---|
| A | ? = 3 (8 × 3 = 24) | B | ? = 16 (24 – 8) |
| C | ? = 4 (8 × 4 = 32) | D | ? = 192 (8 × 24) |

**Practice 4** Book p.115 · Ex 4

**45 is ? times as much as 9.** Write a multiplication equation and solve.

| | | | |
|---|---|---|---|
| A | ? = 36 (45 – 9) | B | ? = 4 (4 × 9 = 36) |
| C | ? = 6 (6 × 9 = 54) | D | ? = 5 (5 × 9 = 45) |

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**Question 12 Solving Multiplicative Comparison Problems** (continued)



**Practice 5** Book p.115 · Ex 5

Marie read 20 pages last week. She read **2 times as many** pages this week as last week. How many pages did she read this week?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 22 pages | **B** | 40 pages | **C** | 18 pages | **D** | 10 pages |

**Practice 6** Book p.115 · Ex 6

A tomato plant is 48 inches tall. How many times as tall is the tomato plant as a pepper plant that is 8 inches tall?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 6 times | **B** | 40 times | **C** | 8 times | **D** | 56 times |

**Practice 7** Book p.115 · Ex 7

Dana saved $63. Dana saved **7 times as much** as Julie. How much did Julie save?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | $56 | **B** | $441 | **C** | $9 | **D** | $70 |

**Practice 8** Variation of Ex 1

Which equation matches "**72 is ? times as much as 9**"?

| | | | |
|---|---|---|---|
| **A** | 72 × ? = 9 | **B** | ? + 9 = 72 |
| **C** | 9 × 72 = ? | **D** | ? × 9 = 72 |

**Practice 9** Variation of Ex 6

A bookcase is 90 cm tall. A shelf is 6 cm tall. How many times as tall is the bookcase as the shelf?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 84 times | **B** | 15 times | **C** | 96 times | **D** | 540 times |

**Practice 10** Variation of Ex 5

Omar has $12. His sister has 4 times as much. How much does his sister have?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | $16 | **B** | $48 | **C** | $8 | **D** | $3 |

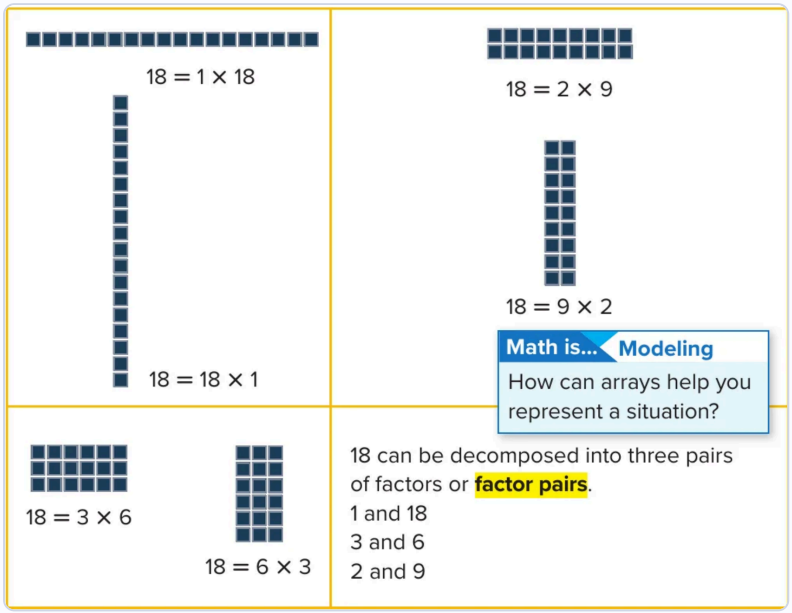
13

Question 13 of 25 · Comparison, Factors & Patterns

# 13 Factor Pairs of a Whole Number

Multiple choice  Book pp. 132–133

## 📸 From your book (Learn, page 132)




### 💡 Definition

Factor pair: two numbers that multiply to give the number.

### 👉 Start with × 1

Always start with 1 × the number. 1 and the number itself are always factors.

### 📝 Note

Revise your times table (1 to 12)! The faster you know it, the faster you find factor pairs.

## ✏️ Worked example

**Find all factor pairs of 18 (Rachel's 18 stickers).**

**1 × 18 • 2 × 9 • 3 × 6**

**Next test is 4 — no. 5 — no. 6 is already used, so stop.**

**Factors of 18: 1, 2, 3, 6, 9, 18**

**Part 1** Circle the letter of the one correct answer.

### Practice 1

Book p.132 · Learn

Which list shows **all** the factor pairs of **18**?

| | | | |
|---|---|---|---|
| **A** | 1 × 18, 2 × 9 | **B** | 1 × 18, 3 × 6 |
| **C** | 1 × 18, 2 × 9, 4 × 6 | **D** | 1 × 18, 2 × 9, 3 × 6 |

### Practice 2

Book p.132 · Work Together

Which list shows **all** the factor pairs of **48**?

| | | | |
|---|---|---|---|
| **A** | 1 × 48, 2 × 24, 3 × 16, 4 × 12, 6 × 8 | **B** | 1 × 48, 2 × 24, 3 × 16, 4 × 12 |
| **C** | 1 × 48, 3 × 16, 4 × 12, 6 × 8 | **D** | 1 × 48, 2 × 24, 3 × 16, 4 × 12, 7 × 8 |

### Practice 3

Book p.133 · Ex 1

Which list shows **all** the factor pairs of **14**?

| | | | |
|---|---|---|---|
| **A** | 1 × 14 | **B** | 1 × 14, 3 × 7 |
| **C** | 1 × 14, 2 × 7 | **D** | 1 × 14, 2 × 7, 7 × 2 |

### Practice 4

Book p.133 · Ex 2

Which list shows **all** the factor pairs of **65**?

| | | | |
|---|---|---|---|
| **A** | 1 × 65 | **B** | 1 × 65, 6 × 13 |
| **C** | 1 × 65, 5 × 13 | **D** | 1 × 65, 5 × 13, 13 × 5 |

### Practice 5

How many factors does 20 have?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 4 | **B** | 5 | **C** | 8 | **D** | 6 |

13

**Question 13 Factor Pairs of a Whole Number** (continued)

**Practice 6** Book p.133 · Ex 3

Which list shows **all** the factor pairs of **23**?

| | | | |
|---|---|---|---|
| **A** | 1 × 23 | **B** | 1 × 23, 3 × 8 |
| **C** | 1 × 23, 23 × 1 | **D** | 1 × 23, 2 × 22 |

**Practice 7** Book p.133 · Ex 4

Which list shows **all** the factor pairs of **64**?

| | | | |
|---|---|---|---|
| **A** | 1 × 64, 2 × 32, 4 × 16 | **B** | 1 × 64, 4 × 16, 8 × 8 |
| **C** | 1 × 64, 2 × 32, 4 × 16, 9 × 8 | **D** | 1 × 64, 2 × 32, 4 × 16, 8 × 8 |

**Practice 8** Book p.133 · Ex 5

Which list shows **all** the factor pairs of **32**?

| | | | |
|---|---|---|---|
| **A** | 1 × 32, 2 × 16 | **B** | 1 × 32, 2 × 16, 4 × 8 |
| **C** | 1 × 32, 4 × 8 | **D** | 1 × 32, 2 × 16, 5 × 8 |

**Practice 9** Book p.133 · Ex 6

Which list shows **all** the factor pairs of **100**?

| | | | |
|---|---|---|---|
| **A** | 1 × 100, 2 × 50, 4 × 25, 5 × 20, 10 × 10 | **B** | 1 × 100, 2 × 50, 4 × 25, 5 × 20 |
| **C** | 1 × 100, 4 × 25, 5 × 20, 10 × 10 | **D** | 1 × 100, 2 × 50, 4 × 25, 5 × 20, 11 × 10 |

**Practice 10** Book p.133 · Ex 7

Adrian arranges **12 flowers** in vases with the **same number in each vase**. He can use up to 6 vases. Which list shows **all** the ways?

| | |
|---|---|
| **A** | 2 vases of 6, 3 vases of 4 |
| **B** | 1 vase of 12, 2 vases of 6, 3 vases of 4, 6 vases of 2 |
| **C** | 1 vase of 12, 2 vases of 6, 3 vases of 4, 4 vases of 3, 6 vases of 2 |
| **D** | 2 vases of 6, 3 vases of 4, 4 vases of 3, 5 vases of 2 |

**Practice 11** Book p.133 · Ex 8

Setsuko puts **36 books** on shelves with the same number on each shelf. She uses up to 3 shelves. Which list shows **all** the ways?

| | | | |
|---|---|---|---|
| **A** | 2 shelves of 18, 3 shelves of 12 | **B** | 1 shelf of 36, 2 shelves of 18, 3 shelves of 9 |
| **C** | 1 shelf of 36, 3 shelves of 12, 4 shelves of 9 | **D** | 1 shelf of 36, 2 shelves of 18, 3 shelves of 12 |

**Practice 12** Book p.133 · Ex 9

A soccer coach displays **24 trophies** in equal rows. Which is **not** a possible arrangement?

| | | | |
|---|---|---|---|
| **A** | 4 rows of 6 | **B** | 5 rows of 5 |
| **C** | 3 rows of 8 | **D** | 2 rows of 12 |

**Practice 13**

Which number is **not** a factor of 48?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 8 | **B** | 9 | **C** | 12 | **D** | 16 |

14

Question 14 of 25 · Comparison, Factors & Patterns

# 14 Prime and Composite Numbers

Multiple choice  Book p. 139

### ⭐ Golden rule

**Prime:** exactly **one** factor pair (1 × the number).
**Composite: more than one** factor pair. **1** is neither prime nor composite.

### 📋 The first prime numbers

**2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31**

Every other number up to 31 is composite (except 1).

### ✏️ Worked example

**Is 21 prime or composite?**
**1 × 21 and 3 × 7 → two factor pairs → composite.**
**Is 13 prime or composite?**
**Only 1 × 13 → prime.**

### 📝 Remember!

~~× 1 is prime~~
✓ 1 is neither
It has just one factor.

**Part 1** Circle the letter of the one correct answer.

**Practice 1** Book p.139 · Ex 1

Is **3** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Prime — its only factor pair is 1 × 3 | **B** | Composite — it has more than one factor pair |
| **C** | Composite — it is odd | **D** | Neither prime nor composite |

**Practice 2** Book p.139 · Ex 2

Is **24** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Prime — its only factor pair is 1 × 24 | **B** | Prime — it is even |
| **C** | Composite — 2 × 12 = 24 | **D** | Neither prime nor composite |

**Practice 3** Book p.139 · Ex 3

Is **15** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Prime — its only factor pair is 1 × 15 | **B** | Prime — it is odd |
| **C** | Composite — 3 × 5 = 15 | **D** | Neither prime nor composite |

**Practice 4** Book p.139 · Ex 4

Is **31** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Prime — its only factor pair is 1 × 31 | **B** | Composite — it has more than one factor pair |
| **C** | Composite — it is odd | **D** | Neither prime nor composite |

**Practice 5** Book p.139 · Ex 11

Which number is a **prime number greater than 50**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 51 | **B** | 53 | **C** | 55 | **D** | 57 |

**Practice 6**

Which list has **only** prime numbers?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 2, 9, 11 | **B** | 3, 7, 15 | **C** | 5, 11, 21 | **D** | 2, 5, 11 |

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**Question 14** **Prime and Composite Numbers** (continued)



**Practice 7** Book p.139 · Ex 5

Is **87** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Prime — its only factor pair is 1 × 87 | **B** | Prime — it is odd |
| **C** | Neither prime nor composite | **D** | Composite — 3 × 29 = 87 |

**Practice 8** Book p.139 · Ex 6

Is **2** prime or composite?

| | | | |
|---|---|---|---|
| **A** | Composite — it has more than one factor pair | **B** | Prime — its only factor pair is 1 × 2 |
| **C** | Composite — it is even | **D** | Neither prime nor composite |

**Practice 9** Book p.139 · Ex 7

True or false? **All even numbers greater than 2 are composite.**

| | | | |
|---|---|---|---|
| **A** | True — they all have 2 as a factor | **B** | False — 4 is prime |
| **C** | False — 6 is prime | **D** | True — they are all odd |

**Practice 10** Book p.139 · Ex 8

True or false? **1 is a prime number.**

| | | | |
|---|---|---|---|
| **A** | True — it has only 1 × 1 | **B** | True — it is the first prime |
| **C** | False — 1 is neither prime nor composite | **D** | False — it is composite |

**Practice 11** Book p.139 · Ex 9

True or false? **All odd numbers are prime.**

| | | | |
|---|---|---|---|
| **A** | True — odd numbers cannot be divided | **B** | False — 3 is not prime |
| **C** | True — 15 is prime | **D** | False — 9 = 3 × 3 is odd but composite |

**Practice 12** Book p.139 · Ex 10

True or false? **All prime numbers are odd.**

| | | | |
|---|---|---|---|
| **A** | True — 2 is odd | **B** | False — 2 is prime and even |
| **C** | False — 3 is even | **D** | True — 5 is even |

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Question 15 of 25 · Comparison, Factors & Patterns

# 15 Multiples of a Whole Number

Multiple choice  Book p. 143

## ⭐ Golden rule

A **multiple** of a number is a number you get when you multiply it by 1, 2, 3, 4… (skip counting).

🔎 **Quick test:** "Is it in the **times table** of that number?" **Yes → it is a multiple.** No → it is not.

## ✏️ Worked example

**Is 56 a multiple of 7? Look in the 7 times table: 7, 14, 21, 28, 35, 42, 49, 56 → yes, 7 × 8 = 56.**
**Is 50 a multiple of 7? The table goes 49, 56 — 50 is not there → no.**
**Pattern of 5: every multiple of 5 ends in 0 or 5.**

**⚠️ Watch out!**
~~× 42 is a factor of 7~~
✓ 7 is a factor of 42; 42 is a multiple of 7
Factors are small, multiples are big.

**⚠️ Watch out!**
~~× 50 is a multiple of 7 because it is close~~
✓ Check the 7 times table
Close is not enough.

**Part 1** Circle the letter of the one correct answer.

### Practice 1  Book p.143 · Ex 1

The first three multiples of **4** are 4, 8, 12. What are the **next five** multiples?

| | | | |
|---|---|---|---|
| A | 16, 20, 24, 28, 32 | B | 16, 20, 24, 28, 36 |
| C | 13, 14, 15, 16, 17 | D | 17, 21, 25, 29, 33 |

### Practice 2  Book p.143 · Ex 2

The first three multiples of **7** are 7, 14, 21. What are the **next five** multiples?

| | | | |
|---|---|---|---|
| A | 28, 35, 42, 49, 63 | B | 22, 23, 24, 25, 26 |
| C | 28, 35, 42, 49, 56 | D | 29, 36, 43, 50, 57 |

### Practice 3  Book p.143 · Ex 3

The first three multiples of **12** are 12, 24, 36. What are the **next five** multiples?

| | | | |
|---|---|---|---|
| A | 48, 60, 72, 84, 108 | B | 37, 38, 39, 40, 41 |
| C | 48, 60, 72, 84, 96 | D | 49, 61, 73, 85, 97 |

### Practice 4  Book p.143 · Ex 4

The first three multiples of **15** are 15, 30, 45. What are the **next five** multiples?

| | | | |
|---|---|---|---|
| A | 60, 75, 90, 105, 120 | B | 60, 75, 90, 105, 135 |
| C | 46, 47, 48, 49, 50 | D | 61, 76, 91, 106, 121 |

### Practice 5  Book p.143 · Ex 5

Which numbers are **multiples of 4**? (14, 16, 34, 64)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 14 and 34 | B | 16 and 34 | C | 14 and 64 | D | 16 and 64 |

### Practice 6  Book p.143 · Ex 6

Which numbers are **multiples of 9**? (91, 89, 45, 18)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 91 and 89 | B | 45 and 18 | C | 45 and 89 | D | 91 and 18 |

**Question 15** **Multiples of a Whole Number** (continued)



### Practice 7

Book p.143 · Ex 7

Find the missing multiples: **__, 12, 18, __, __, __**

| | | | |
|---|---|---|---|
| **A** | 6, 24, 30, 36 | **B** | 9, 24, 30, 36 |
| **C** | 6, 20, 26, 32 | **D** | 8, 22, 28, 34 |

### Practice 8

Book p.143 · Ex 8

Find the missing multiples: **__, 10, __, __, __**

| | | | |
|---|---|---|---|
| **A** | 2, 12, 14, 16 | **B** | 5, 12, 14, 16 |
| **C** | 5, 15, 20, 25 | **D** | 8, 12, 14, 16 |

### Practice 9

Book p.143 · Ex 9

Look at the products of 5 (5, 10, 15, 20, 25 …). How can the pattern help you tell if a number is a multiple of 5?

| | | | |
|---|---|---|---|
| **A** | Multiples of 5 are always even | **B** | Multiples of 5 end in 2 or 7 |
| **C** | Multiples of 5 are always odd | **D** | Multiples of 5 end in 0 or 5 |

### Practice 10

Is **72** a multiple of 8? Think of the 8 times table.

| | | | |
|---|---|---|---|
| **A** | No — 8 × 8 = 72 | **B** | Yes — 8 × 9 = 72 |
| **C** | Yes — 8 × 7 = 72 | **D** | No — it is not in the table |

### Practice 11

Which number is **not** a multiple of 6?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 36 | **B** | 40 | **C** | 48 | **D** | 54 |

16

Question 16 of 25 · Comparison, Factors & Patterns

# 16 Number and Shape Patterns

Multiple choice  Book p. 147

## ✏️ Worked example

6, 12, 24, 48, 96 → 12 ÷ 6 = 2, 24 ÷ 12 = 2 → **Pattern rule** = how the numbers change each time → Rule: multiply by 2.

Shapes: ■ ● ▲ ■ ● ▲ ■ ?

The **pattern unit** = the part that repeats. The unit is ■ ● ▲ — so the next shape is ●.

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.147 · Ex 1

Does this pattern have a **pattern unit** or a **rule**?

■ ■ ● ▲ ■ ■ ● ▲

| | | | |
|---|---|---|---|
| A | Rule: add 2 | B | Rule: multiply by 2 |
| C | Pattern unit: square, circle | D | Pattern unit: square, square, circle, triangle |

### Practice 2
Book p.147 · Ex 2

**6, 12, 24, 48, 96** — what is the pattern rule?

| | | | |
|---|---|---|---|
| A | Multiply by 2 | B | Add 6 |
| C | Add 12 | D | Multiply by 6 |

### Practice 3
Book p.147 · Ex 3

**4, 8, 10, 4, 8, 10** — what is the pattern unit?

| | | | |
|---|---|---|---|
| A | 4, 8 | B | 8, 10, 4, 8 |
| C | 4, 8, 10 | D | Add 4 |

### Practice 4
Book p.147 · Ex 4

Dot pattern: row 1 has 1 dot, row 2 has 3 dots, row 3 has 5 dots, row 4 has 7 dots. What is the rule?

| | | | |
|---|---|---|---|
| A | Add 1 dot each row | B | Multiply by 2 |
| C | Add 2 dots each row | D | Add 3 dots each row |

### Practice 5
Book p.147 · Ex 5

A pattern of yellow diamonds has 1, then 5, then 9 diamonds. What is the rule?

| | | | |
|---|---|---|---|
| A | Add 4 | B | Add 5 |
| C | Add 2 | D | Multiply by 4 |

### Practice 6
Book p.147 · Ex 6

**12, 20, 28, 36, 44** — what is the pattern rule?

| | | | |
|---|---|---|---|
| A | Add 12 | B | Add 4 |
| C | Multiply by 2 | D | Add 8 |

### Practice 7
Next term

Which shape is next?

■ ● ▲ ■ ● ▲ ■ ?

| | | | |
|---|---|---|---|
| A | Square ■ | B | Triangle ▲ |
| C | Circle ● | D | Star ★ |

### Practice 8
Next term

Which shape is next?

● ● ■ ● ● ■ ● ?

| | | | |
|---|---|---|---|
| A | Square ■ | B | Triangle ▲ |
| C | Star ★ | D | Circle ● |

📖 **Read the question slowly — the answer is closer than you think.**

**Question 16 Number and Shape Patterns** (continued)



### Practice 9

Book p.147 · Ex 7

Extend the pattern with three more terms: **36, 30, 24, __, __, __**

| | | | |
|---|---|---|---|
| **A** | 18, 12, 8 | **B** | 18, 12, 6 |
| **C** | 30, 36, 42 | **D** | 28, 32, 36 |

### Practice 10

Book p.147 · Ex 8

Squares are added to a pattern: Figure 1 has 1 square, Figure 2 has 3 squares, Figure 3 has 5 squares. What is the rule?

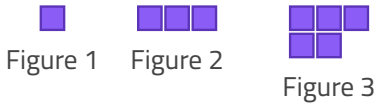


Figure 1 Figure 2 Figure 3

| | | | |
|---|---|---|---|
| **A** | Add 2 squares each time | **B** | Add 1 square each time |
| **C** | Multiply by 3 | **D** | Add 3 squares each time |

### Practice 11

Next term

Which shape is next?



| | | | |
|---|---|---|---|
| **A** | Triangle ▲ | **B** | Square ■ |
| **C** | Circle ● | **D** | Star ★ |

### Practice 12

Next term

Which shape is next?

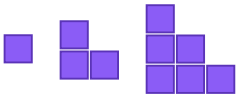


| | | | |
|---|---|---|---|
| **A** | Square ■ | **B** | Triangle ▲ |
| **C** | Circle ● | **D** | Star ★ |

### Practice 13

Next term

The figures show a growing pattern. How many squares will Figure 4 have?



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 8 | **B** | 9 | **C** | 12 | **D** | 10 |

17

Question 17 of 25 · Multiplication

# Patterns with Zeros: 1-Digit × Multiples of 10, 100, 1,000

Multiple choice  Book p. 167

## ⭐ Golden rule

**Multiply the basic fact, then add the zeros.**

| | |
|---|---|
| 6 × 4 = 24 | basic fact |
| 6 × 4 **0** = 24 **0** | one zero |
| 6 × 4 **00** = 24 **00** | two zeros |
| 6 × 4 **,000** = 24 **,000** | three zeros |

## ⚠️ Watch out!

~~× 5 × 60 = 30~~

✓ 5 × 60 = 300

5 × 6 = 30 and 60 has one zero, so write 30 + 0.

## ✏️ Worked example

*Find 7 × 600.*

*7 × 6 hundreds = 42 hundreds = 4,200*

*Basic fact: 7 × 6 = 42, then add two zeros.*

**Part 1** Circle the letter of the one correct answer.

**Practice 1** Book p.167 · Ex 1

What is **4 × 40**?

| A | B | C | D |
|---|---|---|---|
| 160 | 16 | 1,600 | 164 |

**Practice 2** Book p.167 · Ex 2

What is **4 × 400**?

| A | B | C | D |
|---|---|---|---|
| 160 | 16,000 | 1,600 | 1,604 |

**Practice 3** Book p.167 · Ex 3

What is **6 × 600**?

| A | B | C | D |
|---|---|---|---|
| 360 | 36,000 | 3,600 | 3,606 |

**Practice 4** Book p.167 · Ex 4

What is **6 × 6,000**?

| A | B | C | D |
|---|---|---|---|
| 36,000 | 3,600 | 360,000 | 36,006 |

**Practice 5** Book p.167 · Ex 5

What is **4 × 20**?

| A | B | C | D |
|---|---|---|---|
| 8 | 800 | 84 | 80 |

**Practice 6** Book p.167 · Ex 6

What is **4 × 200**?

| A | B | C | D |
|---|---|---|---|
| 80 | 800 | 8,000 | 804 |

**Practice 7** Book p.167 · Ex 7

What is **7 × 300**?

| A | B | C | D |
|---|---|---|---|
| 2,100 | 210 | 21,000 | 2,107 |

**Practice 8** Book p.167 · Ex 8

What is **2 × 900**?

| A | B | C | D |
|---|---|---|---|
| 180 | 18,000 | 1,800 | 1,802 |

**Practice 9** Book p.167 · Ex 9

What is **8 × 80**?

| A | B | C | D |
|---|---|---|---|
| 64 | 6,400 | 648 | 640 |

**Practice 10** Book p.167 · Ex 10

What is **9 × 7,000**?

| A | B | C | D |
|---|---|---|---|
| 6,300 | 63,000 | 630,000 | 63,009 |

**Practice 11**

Find the missing number: **8 × ___ = 56,000**

| A | B | C | D |
|---|---|---|---|
| 700 | 7,000 | 70,000 | 7 |

**Practice 12**

Which expression equals **3,200**?

| A | B | C | D |
|---|---|---|---|
| 8 × 40 | 8 × 4,000 | 4 × 80 | 8 × 400 |

Question 18 of 25 · Multiplication

# 18 Estimating Products by Rounding

Multiple choice  Book p. 171

## 🔑 Key words

estimate  about  round  rounding

All of these words mean: **find a CLOSE answer — NOT an exact answer.**

## ✏️ Worked example

**Estimate 247 × 7. 247 rounds to 200 → 200 × 7 = 1,400.**
**About how many? A cafeteria serves 2,750 lunches a week. 2,750 rounds to 3,000 → 4 × 3,000 = 12,000 lunches.**
***Compatible numbers:* 323 × 5 ≈ 300 × 5 = 1,500.**

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.171 · Ex 5

**Estimate 247 × 7** by rounding 247 to its greatest place.

| A | 1,400 | B | 1,750 | C | 140 | D | 2,100 |
|---|---|---|---|---|---|---|---|

### Practice 2
Book p.171 · Ex 6

**Estimate 396 × 8** by rounding 396 to its greatest place.

| A | 2,400 | B | 320 | C | 3,200 | D | 3,600 |
|---|---|---|---|---|---|---|---|

### Practice 3
Book p.171 · Ex 7

**Estimate 5 × 448** by rounding 448 to its greatest place.

| A | 2,500 | B | 200 | C | 2,000 | D | 2,250 |
|---|---|---|---|---|---|---|---|

### Practice 4
Book p.171 · Ex 8

**Estimate 3,456 × 2** by rounding 3,456 to its greatest place.

| A | 6,000 | B | 7,000 | C | 600 | D | 8,000 |
|---|---|---|---|---|---|---|---|

### Practice 5
Book p.171 · Ex 9

The school cafeteria serves 2,750 lunches each week. **About** how many lunches does it serve in 4 weeks? Round 2,750 to the greatest place.

| A | 8,000 | B | 11,000 | C | 10,000 | D | 12,000 |
|---|---|---|---|---|---|---|---|

### Practice 6
Variation of Ex 9

A farm packs 5 crates with 389 apples in each crate. Without calculating exactly, which total is **closest**? *(No key word here — a "close answer" means estimate!)*

| A | 200 | B | 2,000 | C | 1,500 | D | 20,000 |
|---|---|---|---|---|---|---|---|

✅ **Check your answer once more — champions always do.**

**Question 18** **Estimating Products by Rounding** (continued)



**Practice 7**

**Estimate 6 × 413**.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 2,400 | **B** | 240 | **C** | 3,000 | **D** | 1,800 |

**Practice 8**

**Estimate 7 × 289** by rounding.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 1,400 | **B** | 210 | **C** | 2,100 | **D** | 21,000 |

**Practice 9**

Rita says 6 × 413 = 2,478. Which estimate shows her answer is reasonable?

| | | | |
|---|---|---|---|
| **A** | 6 × 400 = 240 | **B** | 6 × 500 = 3,000 |
| **C** | 6 × 300 = 1,800 | **D** | 6 × 400 = 2,400 |

**Practice 10** Book p.171 · Ex 1

Use **compatible numbers** to estimate **323 × 5**.

| | | | |
|---|---|---|---|
| **A** | 300 × 5 = 150 | **B** | 300 × 5 = 1,500 |
| **C** | 320 × 5 = 1,500 | **D** | 400 × 5 = 2,000 |

**Practice 11** Book p.171 · Ex 2

Use **compatible numbers** to estimate **146 × 3**.

| | | | |
|---|---|---|---|
| **A** | 100 × 3 = 300 | **B** | 150 × 3 = 450 |
| **C** | 150 × 3 = 45 | **D** | 140 × 3 = 420 |

**Practice 12** Book p.171 · Ex 4

Use **compatible numbers** to estimate **6 × 1,252**.

| | | | |
|---|---|---|---|
| **A** | 6 × 1,000 = 6,000 | **B** | 6 × 1,250 = 750 |
| **C** | 6 × 1,300 = 7,800 | **D** | 6 × 1,250 = 7,500 |

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19

Question 19 of 25 · Multiplication

# Area Models: 2-Digit × 1-Digit

Multiple choice  Book p. 179

## ✏️ Worked example

*Find 7 × 52 using the area model.*




7 × 50 = 350 • 7 × 2 = 14 • 350 + 14 = 364

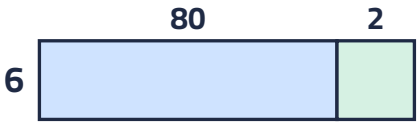
*Equation: 7 × 52 = (7 × 50) + (7 × 2)*

**Part 1** Circle the letter of the one correct answer.

### Practice 1

Book p.179 · Ex 1

**6 × 82.** Which expression matches the area model?




| | | | |
|---|---|---|---|
| A | 6 × (80 + 2) | B | 6 × (8 + 2) |
| C | 6 + (80 × 2) | D | (6 × 80) × 2 |

### Practice 2

Book p.179 · Ex 2

**91 × 8.** Complete the area model: 8 × 91 = 8 × (90 + _ _).

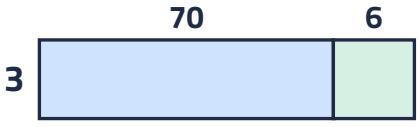



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 9 | B | 91 | C | 1 | D | 8 |

### Practice 3

Book p.179 · Ex 3

**76 × 3.** What is the product shown by the area model?




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 218 | B | 2,118 | C | 228 | D | 88 |

### Practice 4

Book p.179 · Ex 4

**7 × 45.** What are the two partial products in the area model?




| | | | |
|---|---|---|---|
| A | 280 and 35 | B | 28 and 35 |
| C | 280 and 350 | D | 47 and 35 |

### Practice 5

Book p.179 · Ex 5

**7 × 52.** The first partial product is 350. What is the second partial product and the product?

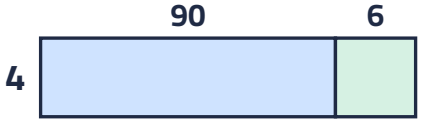



| | | | |
|---|---|---|---|
| A | 14 and 350 | B | 9 and 359 |
| C | 140 and 490 | D | 14 and 364 |

### Practice 6

Book p.179 · Ex 6

**4 × 96.** One partial product is 24. What is the product?




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| A | 360 | B | 384 | C | 324 | D | 264 |

**Question 19** **Area Models: 2-Digit × 1-Digit** (continued)



**Practice 7** Book p.179 · Ex 7

This area model shows **5 × 47**. Find the product.




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 235 | **B** | 200 | **C** | 240 | **D** | 185 |

**Practice 8** Book p.179 · Ex 8

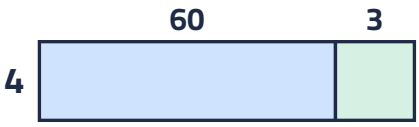
This area model shows **3 × 29**. Find the product.




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 60 | **B** | 90 | **C** | 87 | **D** | 57 |

**Practice 9** Equation from model

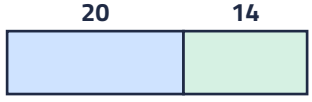
Write the equation for this area model.




| | | | |
|---|---|---|---|
| **A** | 4 × 63 = (4 + 60) × 3 = 252 | **B** | 4 × 63 = 60 + 3 = 63 |
| **C** | 4 × 63 = (4 × 60) × 3 = 720 | **D** | 4 × 63 = (4 × 60) + (4 × 3) = 252 |

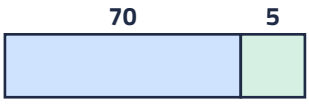
**Practice 10** Which area model?

Which area model matches **6 × 34**?

| | |
|---|---|
| **A** |   |
| **B** |   |
| **C** |   |
| **D** |   |

**Practice 11** Which area model?

Which area model matches **5 × 78**?

| | |
|---|---|
| **A** |   |
| **B** |   |
| **C** |   |
| **D** |   |

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Question 20 of 25 · Multiplication

# 20 Patterns with Zeros: Multiples of 10 × Multiples of 10

Multiple choice | Book p. 187

## ✏️ Worked example

**Find 20 × 20.**
**20 × 20 = 20 × 2 tens = 40 tens = 400**
**Find 70 × 20.**
**7 × 10 × 2 × 10 = 7 × 2 × 10 × 10 = 14 × 100 = 1,400**

**Part 1** Circle the letter of the one correct answer.

### Practice 1
Book p.187 · Ex 1

What is **20 × 20**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 40 | **B** | 4,000 | **C** | 440 | **D** | 400 |

### Practice 2
Book p.187 · Ex 2

What is **50 × 40**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 2,000 | **B** | 200 | **C** | 20,000 | **D** | 2,200 |

### Practice 3
Book p.187 · Ex 3

What is **70 × 20**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 140 | **B** | 14,000 | **C** | 1,400 | **D** | 1,540 |

### Practice 4
Book p.187 · Ex 4

What is **90 × 50**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 450 | **B** | 45,000 | **C** | 4,500 | **D** | 4,950 |

### Practice 5
Book p.187 · Ex 5

What is **90 × 90**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 8,100 | **B** | 810 | **C** | 81,000 | **D** | 8,910 |

### Practice 6
Book p.187 · Ex 6

What is **70 × 50**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 350 | **B** | 35,000 | **C** | 3,850 | **D** | 3,500 |

### Practice 7
Book p.187 · Ex 7

What is **20 × 90**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 180 | **B** | 1,800 | **C** | 18,000 | **D** | 1,980 |

### Practice 8
Book p.187 · Ex 8

What is **20 × 60**?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 1,200 | **B** | 120 | **C** | 12,000 | **D** | 1,320 |

### Practice 9
Book p.187 · Ex 9

A package of pencils contains **20 pencils**. How many pencils are in **50 packages**?

| | | | |
|---|---|---|---|
| **A** | 100 pencils | **B** | 70 pencils |
| **C** | 1,000 pencils | **D** | 10,000 pencils |

### Practice 10
Book p.187 · Ex 10

Tisha has **90 dimes**. A dime is worth 10 cents. How much money does she have in dollars?

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | $90 | **B** | $0.90 | **C** | $900 | **D** | $9 |

### Practice 11

Find the missing number: **80 × ___ = 4,800**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **A** | 6 | **B** | 60 | **C** | 600 | **D** | 40 |

### Practice 12

Which expression equals **12,000**?

| | | | |
|---|---|---|---|
| **A** | 30 × 40 | **B** | 30 × 400 |
| **C** | 30 × 4,000 | **D** | 300 × 4 |

21

Question 21 of 25 · Place Value & Numbers

# 21 Number Forms & Comparing Numbers (Written)

Free response — marks for every step | Book pp. 39 & 43

## ✏️ Worked example

**Expanded form of 530,879 = 500,000 + 30,000 + 800 + 70 + 9**
**Compare 458,631 and 458,361. Same: 4, 5, 8. In the hundreds place 6 > 3 → 458,631 > 458,361**

**Part 2** Show every step of your work. Marks are given for each correct step.

## Part A Write the numbers in the forms asked. *Show each place value.*

**A1** ★ Book p.39 · Ex 3

**Write 530,879 in expanded form.**

**A2** ★ Book p.39 · Ex 4

**Write 6,216 in expanded form.**

**A3** ★ Book p.39 · Ex 7 · STEM

A sign shows the park's size, but a sticker covers some digits.

**Olympic National Park**
Size: ? **2,651 acres**

- The size is between **900,000** and **1,000,000** acres.
- The value of the digit in the **ten thousands** place is **10 times** the value of the digit in the **thousands** place.

Find the size of the park. Write it in **standard form**, **word form** and **expanded form**.

**A4** Variation of Ex 7 · STEM

A sign shows the park's size, but a sticker covers some digits.

**Cedar Valley Park**
Size: ? **4,807 acres**

- The size is between **800,000** and **900,000** acres.
- The value of the digit in the **ten thousands** place is **10 times** the value of the digit in the **thousands** place.

Find the size of the park. Write it in **standard form**, **word form** and **expanded form**.

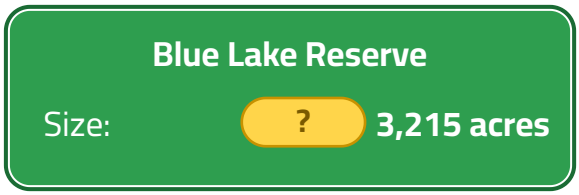
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| Question | 21 | Number Forms & Comparing Numbers (Written) (continued) |
|---|---|---|



**A5** Variation of Ex 7 · STEM

A sign shows the park's size, but a sticker covers some digits.




- The size is between **600,000** and **700,000** acres.
- The value of the digit in the **ten thousands** place is **10 times** the value of the digit in the **thousands** place.

Find the size of the park. Write it in **standard form**, **word form** and **expanded form**.

**A6** Riddle

I am a 5-digit number. My ten thousands digit is 3, and my thousands digit is worth **10 times less** than the value of my ten thousands digit. My hundreds digit is 8, my tens digit is 0 and my ones digit is 5. What number am I? Write it in standard, word and expanded form.

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|
| | | | | | |

**Question 21** Number Forms & Comparing Numbers (Written) (continued)

21

## Part B Compare using >, < or =. Some questions give a place-value chart — use it to help.

### B1
Book p.43 · Ex 1

Compare. Write >, < or =.

**5,598 ___ 55,889**

### B2
Book p.43 · Ex 2

Compare. Write >, < or =.

**123,710 ___ 123,711**

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

### B3
Book p.43 · Ex 3

Compare. Write >, < or =.

**628,910 ___ 628,800**

### B4
Book p.43 · Ex 4

Compare. Write >, < or =.

**709,103 ___ 709,130**

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

### B5
Book p.43 · Ex 5

Compare. Write >, < or =.

**6,217 ___ 6,241**

### B6
Book p.43 · Ex 6

Compare. Write >, < or =.

**43,829 ___ 43,598**

| Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |

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**Question 21** **Number Forms & Comparing Numbers (Written)** (continued)

**B7** Book p.43 · Ex 7

**True or false?** 1,780 < 11,780. Explain how you know.

**B8** Book p.43 · Ex 8

**True or false?** 720,301 < 720,031. Explain how you know.

**B9** Book p.43 · Ex 9

**True or false?** 34,646 > 321,446. Explain how you know.

**B10** Book p.43 · Ex 10

**True or false?** 24,747 < 24,774. Explain how you know.

**B11**

Order from **least to greatest**: 245,310  254,310  245,130

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22

Question 22 of 25 · Addition & Subtraction

# Addition & Subtraction with Regrouping (Written)

Free response — marks for every step | Book pp. 74–75 & 87

## 🔑 Key words — ADD word problems

| | |
|---|---|
| in all ▪ total ▪ altogether ▪ combined ▪ sum | ADD + |

Subtraction in Part 2 is given as **numbers only** — no word problem. Just line up the digits and subtract.

## ✏️ Worked example

**Marta walked 14,156 steps in a day, then took a hike of 8,238 steps. How many steps in all?**

14,156 steps (all day) | 8,238 (hike)

? total steps

**Add**

$$\begin{array}{r} {\scriptstyle 1\quad\quad 1\quad\quad} \\ 14{,}156 \\ +\ \ 8{,}238 \\ \hline 22{,}394 \end{array}$$

22,394 steps

**Subtract: 5,243 − 2,876**

$$\begin{array}{r} {\scriptstyle 4\ \ 11\ \ 13\ \ 13} \\ \cancel{5}{,}\cancel{2}\,\cancel{4}\,\cancel{3} \\ -\ 2{,}876 \\ \hline 2{,}367 \end{array}$$

Ones: 3 is too small → regroup. Answer 2,367.

**Part 2** Show every step of your work. Marks are given for each correct step.

## Part A Addition with regrouping. Line up the digits and add.

**A1** Book p.74 · Learn

Marta walked **14,156** steps in a day and then took a hike of **8,238** steps. How many steps did she take **in all**?

**A2** Book p.74 · Work Together

Kaden took **6,972** steps on Monday and **6,344** steps on Tuesday. How many steps **altogether**?

22

**Question 22** **Addition & Subtraction with Regrouping (Written)** (continued)

**A3** Book p.75 · Ex 1

**1,458 + 926**

$$\begin{array}{r} 1\,4\,5\,8 \\ +\quad 9\,2\,6 \\ \hline \end{array}$$

**A4** Book p.75 · Ex 2

**4,239 + 765**

$$\begin{array}{r} 4\,2\,3\,9 \\ +\quad 7\,6\,5 \\ \hline \end{array}$$

**A5** Book p.75 · Ex 3

**2,744 + 1,306**

$$\begin{array}{r} 2\,7\,4\,4 \\ +\,1\,3\,0\,6 \\ \hline \end{array}$$

**A6** Book p.75 · Ex 4

**4,827 + 3,505**

$$\begin{array}{r} 4\,8\,2\,7 \\ +\,3\,5\,0\,5 \\ \hline \end{array}$$

**A7** Book p.75 · Ex 5

**9,087 + 7,668**

*Line up the digits first →*

**A8** Book p.75 · Ex 6

**12,058 + 4,867**

*Line up the digits first →*

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22

## Question 22 — Addition & Subtraction with Regrouping (Written) (continued)

**A9** Book p.75 · Ex 7

A car manufacturer made **4,569** cars. Next month it will make **5,286 more** cars. How many cars will it make **in all**?

**A10** Book p.75 · Ex 8

Trevon had **1,425** cards. Now he has **395 more** than he started with. How many cards does he have **now**?

**Part B** Subtraction with regrouping. Line up the digits and subtract. *Check:* answer + number subtracted = start.

**B1** Book p.87 · Ex 1

**7,570 – 453**

$$\begin{array}{r} 7\,5\,7\,0 \\ -\quad 4\,5\,3 \\ \hline \end{array}$$

**B2** Book p.87 · Ex 2

**33,071 – 2,893**

$$\begin{array}{r} 3\,3\,0\,7\,1 \\ -\quad 2\,8\,9\,3 \\ \hline \end{array}$$

**B3** Book p.87 · Ex 3

**12,050 – 7,983**

$$\begin{array}{r} 1\,2\,0\,5\,0 \\ -\quad 7\,9\,8\,3 \\ \hline \end{array}$$

**B4** Book p.87 · Ex 4

**4,382 – 633**

$$\begin{array}{r} 4\,3\,8\,2 \\ -\quad 6\,3\,3 \\ \hline \end{array}$$

22

**Question 22** **Addition & Subtraction with Regrouping (Written)** (continued)

**B5** Book p.87 · Ex 5

**67,821 – 7,954**

*Line up the digits first →*

**B6** Book p.87 · Ex 6

**172,005 – 48,273**

*Line up the digits first →*

**B7** Book p.87 · Ex 7

**6,805 – 4,782**

$$\begin{array}{r} 6\,8\,0\,5 \\ -\,4\,7\,8\,2 \\ \hline \end{array}$$

**B8** Book p.87 · Ex 8

**87,034 – 77,245**

$$\begin{array}{r} 8\,7\,0\,3\,4 \\ -\,7\,7\,2\,4\,5 \\ \hline \end{array}$$

**B9** Practice

**8,000 – 3,456**

$$\begin{array}{r} 8\,0\,0\,0 \\ -\,3\,4\,5\,6 \\ \hline \end{array}$$

**B10** Practice

**20,004 – 6,789**

*Line up the digits first →*

23

Question 23 of 25 · Comparison, Factors & Patterns

# Multiplicative Comparison with Division (Written)

Free response — marks for every step  Book pp. 118–119

## ⭐ Golden rule

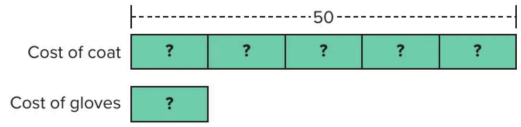
**Draw a bar diagram, then WRITE A DIVISION EQUATION.**

Unknown number of times → **big ÷ small = ?**

Unknown smaller amount → **big ÷ number of times = ?**

## 📸 From your book (Learn, page 118)

Use a bar diagram to represent the problem.
The winter coat costs 5 times as much as a pair of gloves.




Write a division equation to represent and solve the problem.

50 ÷ 5 = ?

50 = 5 × 10

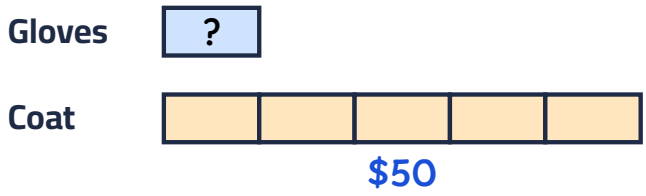
50 ÷ 5 = 10

A pair of gloves costs $10.

**Math is... Choosing Tools**
Why a bar diagram an appropriate tool?

## ✏️ Worked example

**A coat costs $50. This is 5 times as much as a pair of gloves. What do the gloves cost?**




**5 boxes = $50, so 1 box = ? → division equation: 50 ÷ 5 = 10**

**Check: 5 × 10 = 50 ✓ → the gloves cost $10.**

**Part 2** Show every step of your work. Marks are given for each correct step.

**1** Book p.118 · Learn

A coat costs **$50**. This is **5 times as much** as a pair of gloves. How much are the gloves?
Draw a bar diagram and **write a division equation**.

**2** Book p.118 · Work Together

An apple costs **36 cents**. A banana costs **12 cents**. How many times as much does the apple cost compared to the banana? Draw a bar diagram and **write a division equation**.

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**Question 23 Multiplicative Comparison with Division (Written)** (continued)

**3** Book p.119 · Ex 1

**24 is 8 times as much as ?.** Write a division equation and solve.

**4** Book p.119 · Ex 2

**20 is ? times as much as 5.** Write a division equation and solve.

**5** Book p.119 · Ex 3

**18 is ? times as much as 6.** Write a division equation and solve.

**6** Book p.119 · Ex 4

**16 is 4 times as much as ?.** Write a division equation and solve.

**7** Book p.119 · Ex 5

A **green string is 48 inches** long. A **red string is 8 inches** long. How many times as long is the green string as the red string? Write a division equation.

**8** Book p.119 · Ex 6

Ellie has **50 blue blocks**. She has **5 times as many** blue blocks as white blocks. How many white blocks does she have? Write a division equation.

**9** Book p.119 · Ex 7

Charlie read **4 times as many** pages as his sister. Charlie read **36 pages**. How many pages did his sister read? Write **a multiplication equation and a division equation** for the problem.

**10** Table

**The table shows the lengths of two animals.**

| Animal | Length |
|---|---|
| Crocodile | 240 cm |
| Lizard | 30 cm |

**How many times as long is the crocodile as the lizard?** Write a division equation.

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Question 24 of 25 · Comparison, Factors & Patterns

# 24 Generating Patterns from a Rule (Written)

Free response — marks for every step | Book p. 151

⭐ **Golden rule**

**Write the starting number, then apply the rule again and again.** Start 7, add 6 → 7, 13, 19, 25… For a table with a rule, **use the rule** to fill the empty boxes.

✏️ **Worked example**

**Start at 3. Rule: multiply by 2. Write the first 5 terms.**

3 → 3×2 = 6 → 6×2 = 12 → 12×2 = 24 → 24×2 = 48

3, 6, 12, 24, 48

**Table with a rule: Hector puts 3 photos on page 1 and 3 more on each next page.**

| Page | Rule | Photos |
|---|---|---|
| Page 2 | (1 × 3) + 3 | 6 |
| Page 4 | (3 × 3) + 3 | 12 |

**Part 2** Show every step of your work. Marks are given for each correct step.

**1** Book p.151 · Ex 1

**Start at 40. Rule: subtract 4.** Write the first five terms.

**2** Book p.151 · Ex 2

**Pattern: 2 circles, 1 square, repeating.** Draw the first five terms.

**3** Book p.151 · Ex 3

**Start with a row of 14 dots. Each next row has 2 fewer dots.** Write the number of dots in the first five rows.

**4** Book p.151 · Ex 4

**Start at 3. Rule: add 6.** Write the first five terms.

**5** Book p.151 · Ex 5

Hector puts **3 photos** on page 1. Each next page has **3 more**. Use the rule to complete the table.

| Page | Rule | Photos |
|---|---|---|
| Page 2 | (1 × 3) + 3 | 6 |
| Page 4 | | |
| Page 6 | | |

**6** Book p.151 · Ex 6

An amphitheater has **5 seats** in the floor row. Each stair row has **2 more seats on each end** than the row before (4 more in all). Complete the table.

| Row | Rule | Seats |
|---|---|---|
| Row 6 | | |
| Row 8 | (8 × 4) + 5 | 37 |
| Row 10 | | |

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**Question 24** **Generating Patterns from a Rule (Written)** (continued)



**7** Book p.151 · Ex 7

Carton 1 holds **3 pairs of socks**. Each carton holds **double** the one before. Complete the table.

| Carton | Rule | Pairs |
|---|---|---|
| Carton 1 | 1 × 3 | 3 |
| Carton 2 | | |
| Carton 3 | 4 × 3 | 12 |
| Carton 4 | | |

**8** Book p.151 · Ex 8 style

**Start at 5. Rule: add 9.** Write the first five terms.

**9** Practice

**Start at 7. Rule: add 6.** Write the first 6 terms.

**10** Practice

**Start at 3. Rule: multiply by 2.** Write the first 6 terms.

**11** Practice

**Start at 120. Rule: subtract 15.** Write the first 6 terms.

**12** Practice

**Start at 100. Rule: add 25.** What is the **8th term**?

**13** Practice

**A pattern starts with 5 squares and grows by 4 squares each figure.** Complete the table.

| Figure | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Squares | 5 | | | | |

**14** Practice

**Look at the pattern.**



Figure 1  Figure 2  Figure 3

**Write the rule and the number of squares in Figure 5.**

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Question 25 of 25 · Multiplication

# 25 Area Models: Multi-Digit × 1-Digit (Written)

Free response — marks for every step  Book pp. 182–183

## ⭐ Golden rule

**Split the number by place value** into 2–4 parts (125 = 100 + 20 + 5), multiply each part by the 1-digit factor, then **add** all the partial products.

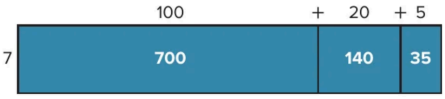
## 📸 From your book (Learn, page 182)

This equation represents the problem.

$t = 7 \times 125$

Decompose the 3-digit factor by place value.

An area model can help find the partial products.




**Math is... Choosing Tools**

How does the area model help you write partial products?

Add the partial products to find the total product.

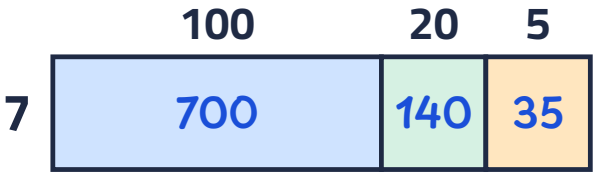
$t = 700 + 140 + 35$

$t = 875$

Solange scores 875 points in the video game.

## ✏️ Worked example

**Solange completes 7 levels with 125 points each. How many points (t = 7 × 125)?**




**7 × 100 = 700 • 7 × 20 = 140 • 7 × 5 = 35 → 700 + 140 + 35 = 875 points**

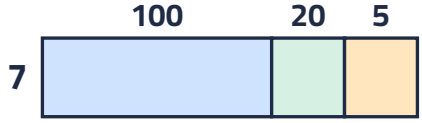
**Part 2** Show every step of your work. Marks are given for each correct step.

**1** Book p.182 · Learn

Solange completes 7 levels. Each level gives 125 points.

Find **7 × 125**.

Use an area model.




**2** Book p.182 · Work Together

Complete 3 levels of 4,732 points each. Find **3 × 4,732**.

Draw an area model.

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**Question 25** **Area Models: Multi-Digit × 1-Digit (Written)** (continued)

**3** Book p.183 · Ex 1

**Find 214 × 2** using the area model.




**4** Book p.183 · Ex 2

**Find 523 × 4** using the area model.




**5** Book p.183 · Ex 3

**Find 6,232 × 3.** Draw your own area model (split 6,232 into 4 parts).

**6** Book p.183 · Ex 4

**Find 3,317 × 5.** Draw your own area model (split 3,317 into 4 parts).

**7** Book p.183 · Ex 5 · STEM

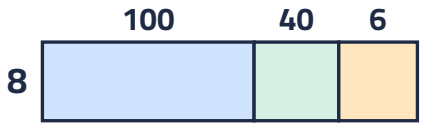
Maya's geode collection has **3 sets** with **689 geodes** in each set. How many geodes does she have?
Draw an area model.

**8** Book p.183 · Ex 6

Molly earns **$372** each week. How much does she earn after **9 weeks**?
Draw an area model.

**9** Practice

**Find 146 × 8** using the area model.




**10** Practice

**Find 815 × 6.** Draw your own area model (split 815 into 3 parts).

✅ **Check your answer once more — champions always do.**