كتيب مراجعة نهاية الفصل في القيمة المكانية للأعداد وتحويلها – ريفيل

تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الرابع ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف	
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المزيد من مادة رياضيات:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس
	إعداد: Maawia Roba

التواصل الاجتماعي بحسب الصف الرابع					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الرابع والمادة رياضيات في الفصل الأول	
1	كتيب مراجعة نهاية الفصل في القيمة المكانية للأعداد وتحويلها – ريفيل
2	كتيب دراسة نهاية الفصل
3	الهيكل الوزاري المعتمد بريدج 2027
4	مراجعة الوحدة الأولى القيمة المكانية
5	نموذج تدريبي للاختبار النهائي وفق الهيكل الوزاري منهج بريدج

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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!**

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

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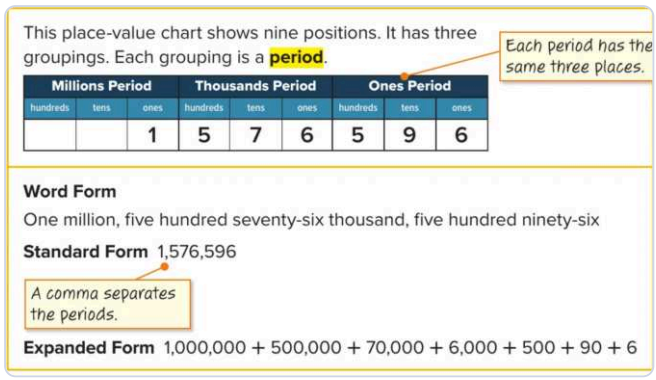
2

Question 2 of 25 · Place Value & Numbers

2 Word Form → Standard Form

Multiple choice Book pp. 38–39



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

3

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 four hundred five thousand, eight hundred thirty-two
B	400,000 + 50,000 + 800 + 30 + 2 four hundred fifty thousand, eight hundred thirty-two
C	400,000 + 5,000 + 800 + 30 + 2 four hundred five thousand, eight hundred three
D	40,000 + 5,000 + 800 + 30 + 2 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 five hundred thirty-nine thousand, one hundred fifty
B	593,015 five hundred ninety-three thousand, fifteen
C	539,015 five hundred thirty-nine thousand, fifteen
D	539,105 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 60,000 + 1,000 + 400 + 10 + 6	B	610,416 600,000 + 10,000 + 400 + 16
C	601,416 600,000 + 1,000 + 400 + 10 + 6	D	610,416 600,000 + 10,000 + 400 + 10 + 6

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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 6,000; 8 6,408	**B**	sixty; four hundred 60,000; 8 60,408
C	six; four hundred 6,000; 80 6,480	**D**	sixty; four hundred 60,000; 80 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 seven hundred forty thousand, thirty-two	**B**	704,032 seven hundred four thousand, three hundred two
C	704,032 seven hundred four thousand, thirty-two	**D**	700,432 seven hundred thousand, four hundred thirty-two

4

Question 4 of 25 · Place Value & Numbers

4 Rounding Multi-Digit Numbers

Multiple choice | Book pp. 46–47

🔑 Key words

round | rounding | estimate | about

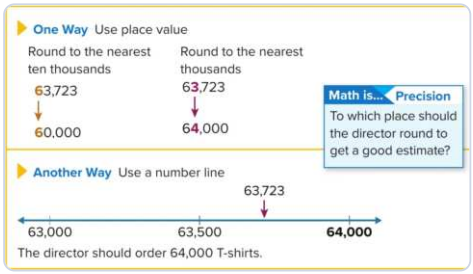
All of these words mean: **find a CLOSE answer — NOT an exact answer.**

➡️ 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

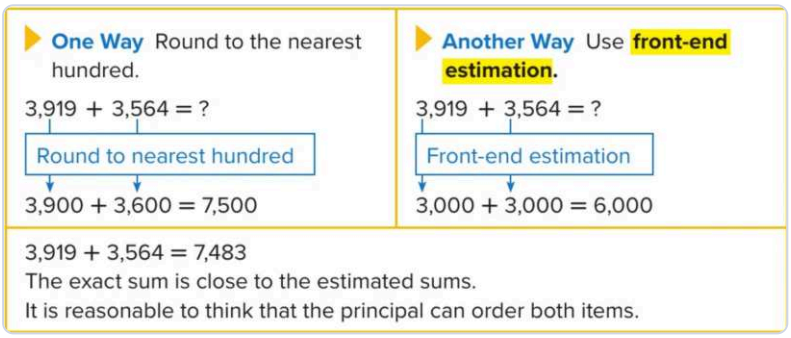
Golden rule

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

🏅 **Be proud of every step forward.**

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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6

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

7

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

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

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

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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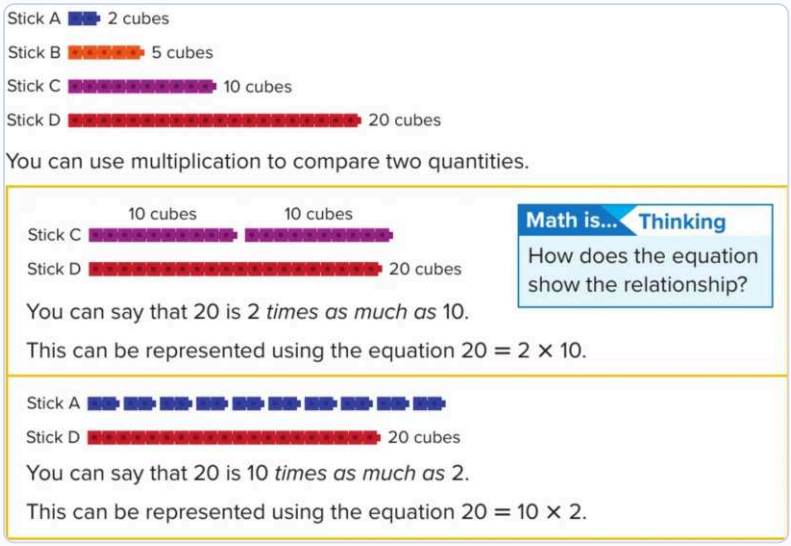
10

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)



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

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

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

11

Question 11 of 25 · Comparison, Factors & Patterns

11 Comparing: Multiplication or Addition?

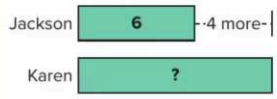
Multiple choice Book pp. 110–111

🔑 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

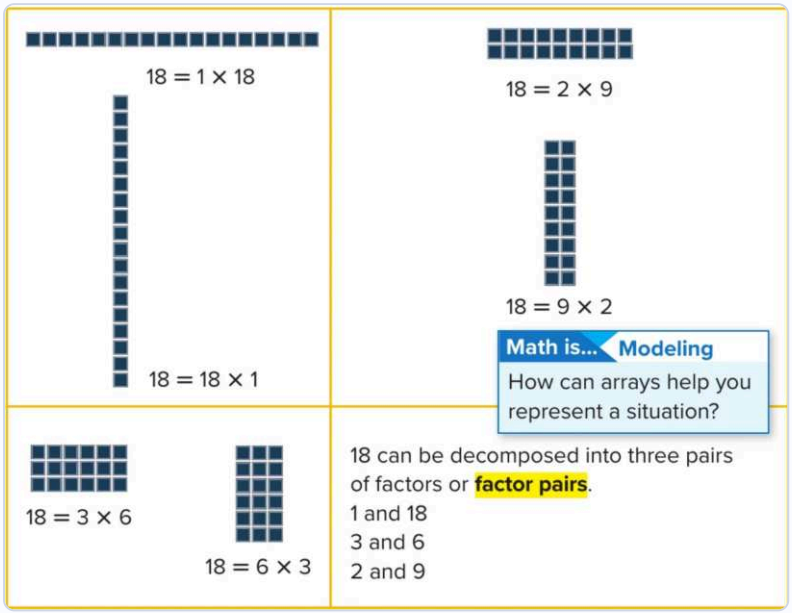
13

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

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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

15

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)

16

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?

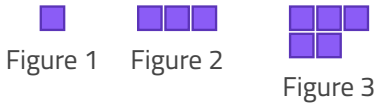


Figure 1 Figure 2 Figure 3

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 ★

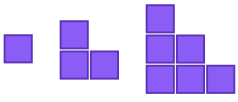
Practice 12
Next term

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

17 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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Question 19 of 25 · Multiplication

19 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

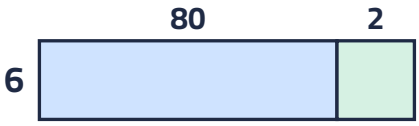
Equation: 7 × 52 = (7 × 50) + (7 × 2)

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

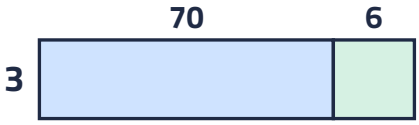
91 × 8. Complete the area model: 8 × 91 = 8 × (90 + _ _).

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

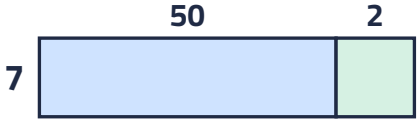
7 × 45. What are the two partial products in the area model?

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?

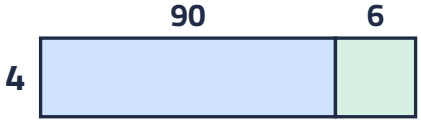


A	14 and 350	B	9 and 359
C	140 and 490	D	14 and 364

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

19

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

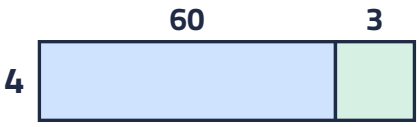
Practice 8
Book p.179 · Ex 8

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

A	60	B	90	C	87	D	57

Practice 9
Equation from model

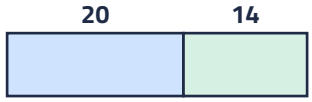
Write the equation for this area model.



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

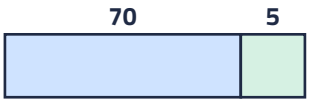
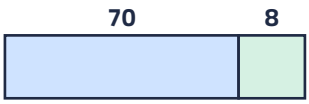
Practice 10
Which area model?

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	

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

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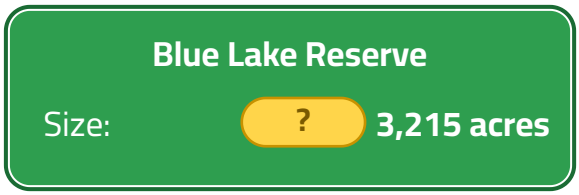
Question	21	Number Forms & Comparing Numbers (Written) (continued)

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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21

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**?

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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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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

```
  7 5 7 0
- 4 5 3
-------
```

B2 Book p.87 · Ex 2

33,071 – 2,893

```
  3 3 0 7 1
-   2 8 9 3
-----------
```

B3 Book p.87 · Ex 3

12,050 – 7,983

```
  1 2 0 5 0
-   7 9 8 3
-----------
```

B4 Book p.87 · Ex 4

4,382 – 633

```
  4 3 8 2
-   6 3 3
---------
```

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 →

Question 23 of 25 · Comparison, Factors & Patterns

23 Multiplicative Comparison with Division (Written)

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

Golden rule

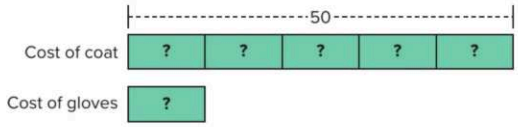
Draw a bar diagram, then WRITE A DIVISION EQUATION.

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

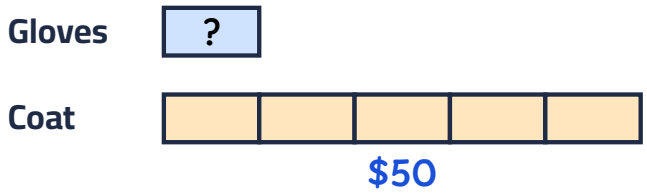
50 ÷ 5 = 10

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**.

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.

24

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.

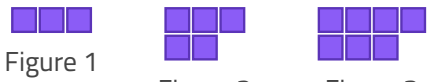


Figure 1 Figure 2 Figure 3

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

25

Question 25 of 25 · Multiplication

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

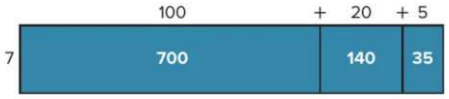
Free response — marks for every step Book pp. 182–183

⭐ **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.

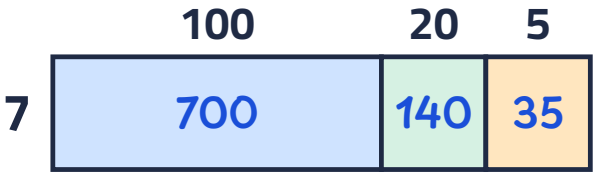


Math is... Choosing Tools
How does the area model help you write partial products?

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)?

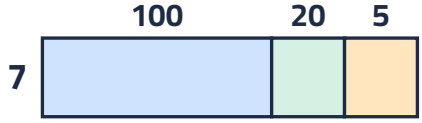


7 × 100 = 700 • 7 × 20 = 140 • 7 × 5 = 35 → 700 + 140 + 35 = 875 points

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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🔥 **Enjoy the challenge — you're a champion!**

25

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

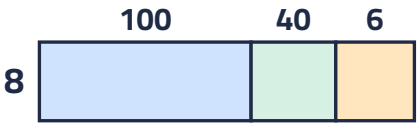
Maya's geode collection has **3 sets** with **689 geodes** in each set. How many geodes does she have?
Draw an area model.

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.**