

تجميعية صفحات الكتاب وفق الهيكل الوزاري الجديد منهج ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الخامس ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 10:19:57 2025-10-31

ملفات اكتب للمعلم اكتب للطالب | اختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة
رياضيات:

إعداد: Ibrahim Mohamed

التواصل الاجتماعي بحسب الصف الخامس



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الأول

تجميعية أسئلة صفحات الكتاب وفق الهيكل الوزاري الجديد منهج بريدج

1

تجميعية شاملة أسئلة الكتاب وفق الهيكل الوزاري الجديد منهج بريدج

2

نموذج إجابة تجميعية شاملة وفق كامل الهيكل الوزاري منهج بريدج

3

تجميعية شاملة وفق كامل الهيكل الوزاري منهج بريدج بدون الحل

4

تجميعية أسئلة وفق الهيكل الوزاري الجديد منهج بريدج

5

**السلام عليكم ورحمة الله هذا هيكل خامس مسار
عام ٢٠٢٥-٢٠٢٦**

**وقد قمت بتجميعه بترتيب صفحات الكتاب ثم
نظمته بحيث يستطيع الطالب حل الأسئلة و
أشرت إلى الصفحات التي تتضمن أسئلة كتابية**

**وأسأل الله أن ينتفع بذلك الطلبة ونسألكم الدعاء
لي ولزوجتي وأهلي**



Unit 2 – L 1

Lesson 2-1

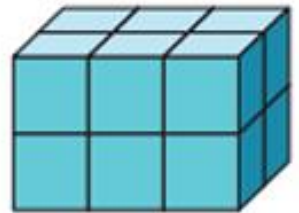
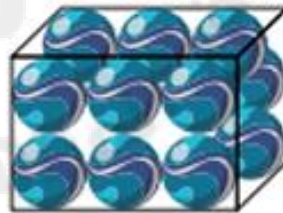
Understand Volume

Book Page: 34

Work Together

One student used marbles to pack a rectangular prism. Another student used unit cubes.

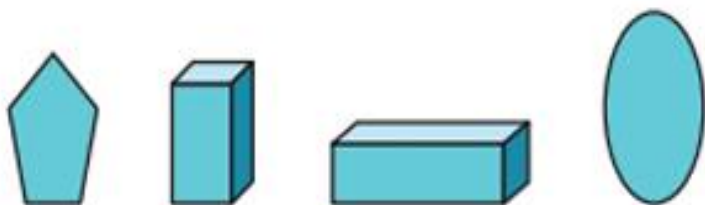
What do you notice about these strategies?



1. Which of these figures have volume? Justify your reasoning



solve



For the situation, would you measure the *length*, *area*, or *volume*? Explain.

2. the amount of soil needed to fill a flower pot



3. the distance of a bike ride



4. the amount of wall space covered by a poster



5. the amount of concrete needed to fill a patio

6. the space inside a moving truck

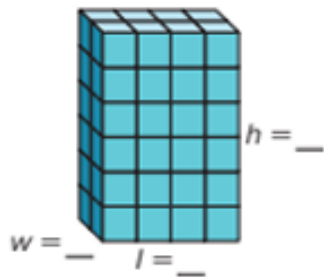


7. the distance around a building



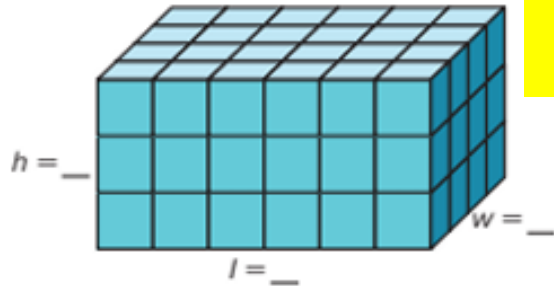
Label the dimensions and then determine the volume of the figure.

1.



$V =$ _____ cubic units

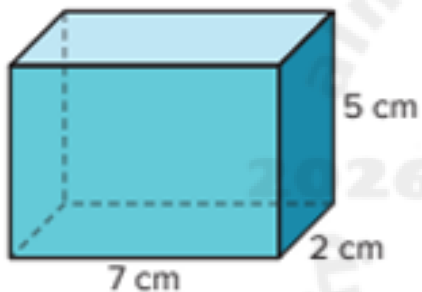
2.



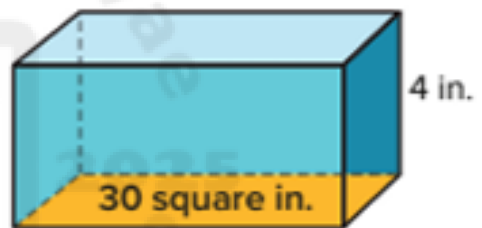
$V =$ _____ cubic units

What is the volume of the figure? Tell which volume formula you used and why.

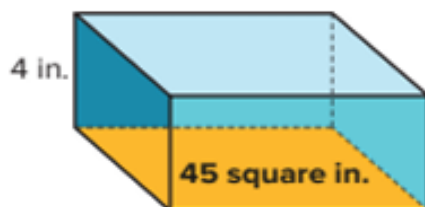
3.



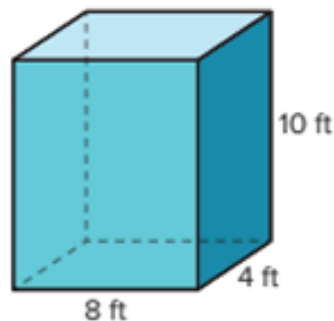
4.



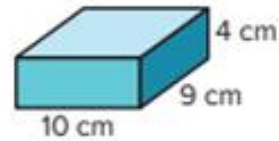
5.



6.



7. Explain how the Associative Property can be used to mentally find the volume of this figure.

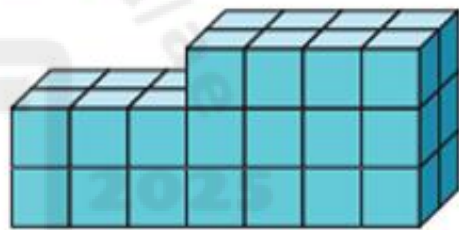


Page 57

11. The volume of a rectangular prism is 48 cubic inches. Which could be the dimensions of the prism?
Select all that apply. (Lesson 2-3)

- A. length = 24 inches
width = 1 inch
height = 2 inches
- B. length = 6 inches
width = 6 inches
height = 4 inches
- C. length = 16 inches
width = 16 inches
height = 16 inches
- D. length = 12 inches
width = 2 inches
height = 2 inches

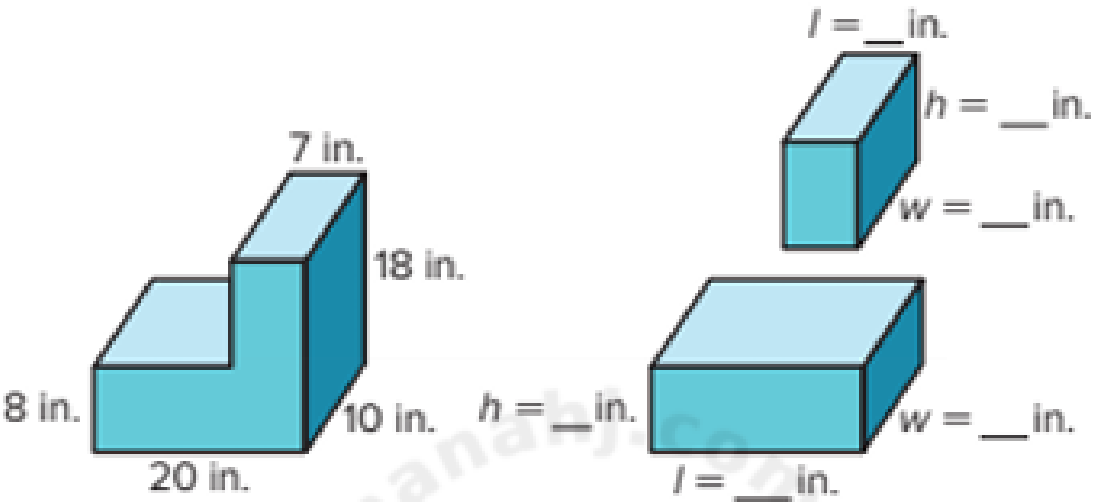
12. What is the volume of this figure?
(Lesson 2-4)



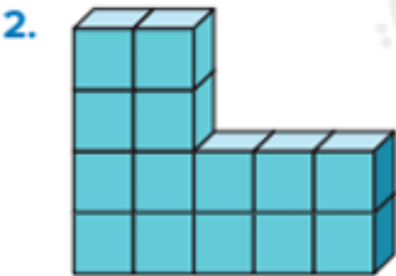
- A. 32 cubic units
- B. 38 cubic units
- C. 34 cubic units
- D. 36 cubic units



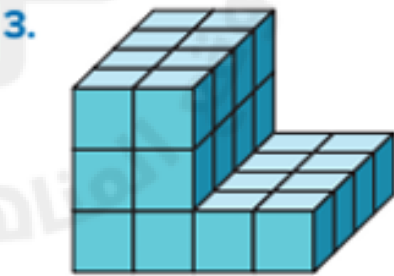
1. Label the unknown dimensions of the decomposed figure and then find the volume of the composite solid figure.



What is the volume of the figure?



$V = \underline{\hspace{2cm}}$ cubic units

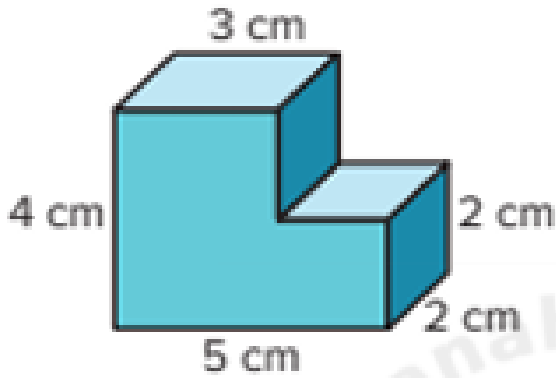


$V = \underline{\hspace{2cm}}$ cubic units



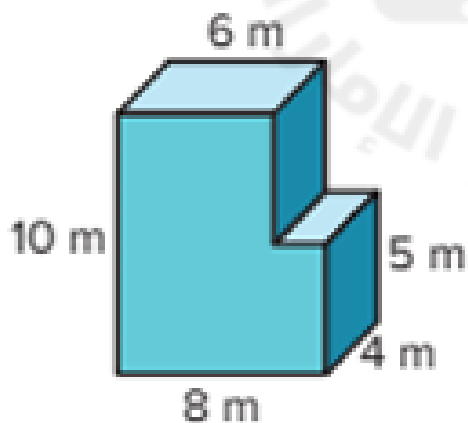
Draw line(s) to show how you decomposed the figure.
What is the volume of the figure?

4.



$V =$ _____

5.



$V =$ _____



Unit 2 – L 5

Lesson 2-5

Solve Problems Involving Volume

Book Page: 51



252 cubic in.



252 cubic in.

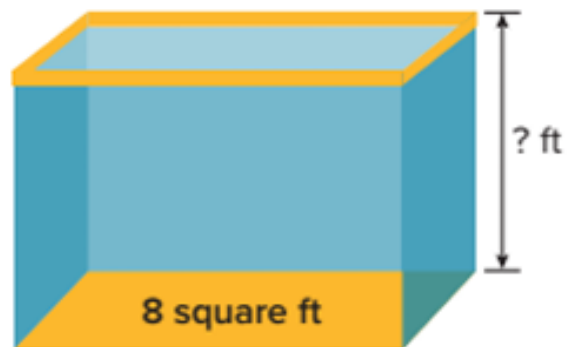


+201143153175

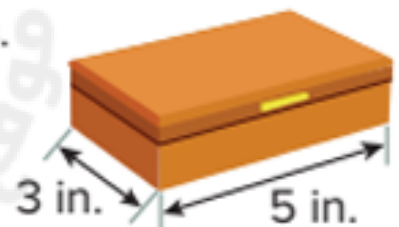
مستتر / محمد إبراهيم

Learn

A fish tank has a volume of 24 cubic feet.
How can you determine the height of the fish tank?



A jewelry box has a volume of 30 cubic inches.
What is the height of the jewelry box?
Show your work.



أسئلة كتابية

Book Page: 53

1. Lillian wants to buy the suitcase with the greater volume.
Which suitcase should she buy? Explain.



2. A cargo container has a volume of 108 cubic meters, a height of 3 meters, and a width of 2 meters. How long is the cargo container? Show your work.



3. The volume of this rabbit hutch is 36 cubic feet.
What is the width? Show your work.



4. The base of a rectangular prism is a square with side lengths equal to 5 centimeters. The volume of the rectangular prism is 100 cubic centimeters. What is the prism's height? Explain.

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المناهج الإماراتية



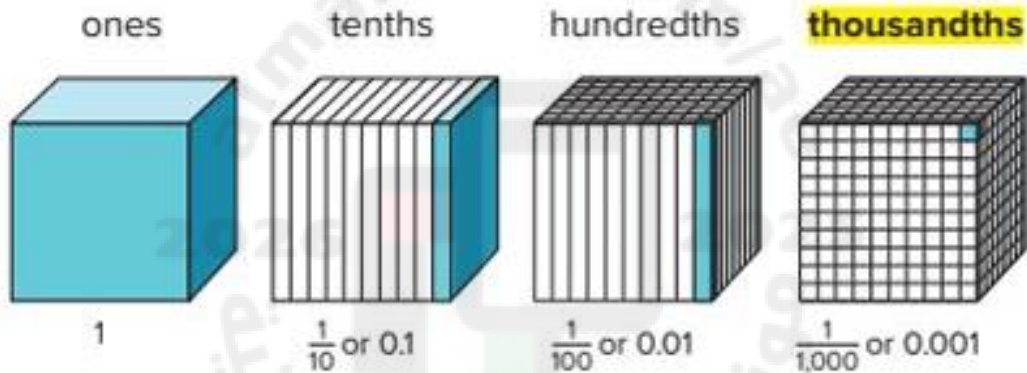
Learn

Keagan thinks that the value of each digit 1 is the same.

How can you help Keagan make sense of this number?

ones	tenths	hundredths	thousandths
1	1	1	1

Use a representation to show the value of each digit 1.



Work Together

What are two different ways to describe the relationship between the 0.8 and 0.08?



Name _____

1. Which of the following statements is *true*?

- A. 0.009 is ten times 0.09
- B. 0.09 is ten times 0.009
- C. 0.09 is $\frac{1}{10}$ of 0.009
- D. 9 is $\frac{1}{10}$ of 0.9

2. Which of the following statements is *true*?

- A. 0.003 is $\frac{1}{10}$ of 0.03
- B. 0.03 is $\frac{1}{10}$ of 0.003
- C. 0.3 is ten times 0.003
- D. 3 is ten times 0.03

Marcella has \$5.00, Niko has \$0.50, and Benjamin has \$0.05.
Use this information to complete each sentence.

- 3. Benjamin has _____ the money Niko has.
- 4. Marcella has _____ the money Niko has.

Complete each sentence.

- 5. \$9.00 is _____ \$0.90.
- 6. \$0.90 is _____ \$9.00.

7. What are two different ways to describe the relationship between the values of each digit 4 in 3.244?

8. What are two different ways to describe the relationship between the values of each digit 2 in 2.257?



9. Error Analysis Toby writes the number 23.2 and says that the value of the digit 2 in the tens place is 10 times the value of the digit 2 in the tenths place. How do you respond to him?

10. For which numbers is the value of the digit 8 ten times the value of the digit 8 in the number 4.984?

A. 3.814

B. 5.820

C. 6.982

D. 8.492



What is the word form of the decimal?

1. 8.2

2. 8.02

3. 0.82

4. 0.082

What is the standard form of the decimal?

5. $0.9 + 0.03 + 0.007$

6. $20 + 0.7 + 0.08 + 0.006$

7. $5 + 0.01 + 0.009$

8. $7 + \frac{4}{10} + \frac{5}{1,000}$

What is each decimal in standard form?

What is each decimal in expanded form?

9. ninety-three and six thousandths

10. three and eight hundred forty-six thousandths

11. two hundred twelve and fifteen thousandths

12. seven hundred fifty-one thousandths



Learn

Which bag weighs more?

Page: 76

أسئلة كتابية



3.281 kg

3.095 kg

Compare the digits in each place starting with the greatest place-value position.

ones	tenths	hundredths	thousandths
3	2	8	1
3	0	9	5

Both numbers have 3 ones.

2 tenths > 0 tenths

Math is... Thinking

Why was it not necessary to compare the hundredths place?

$3.281 > 3.095$. So, the purple bag weighs more than the red bag.

You can compare decimals the same way you compare multi-digit numbers.

Work Together

Compare the weights of these bags.

ones	tenths	hundredths	thousandths
3	2	8	1
3	9		



3.281 kg

3.9 kg

$3.281 \bigcirc 3.9$

Write $>$, $<$, or $=$ in each $\bigcirc$ to make a true comparison.
You can use a place-value chart to help.

Page: 77

أسئلة كتابية

1. $7.790 \bigcirc 8.7$

2. $1.021 \bigcirc 1.095$

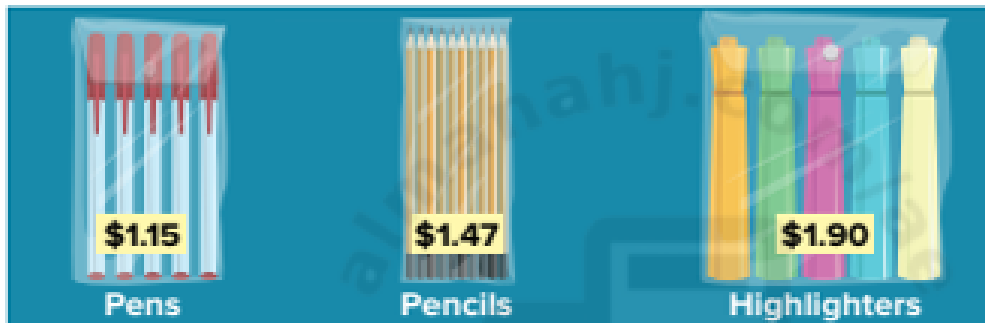
3. $6.55 \bigcirc 5.66$

4. $9.9 \bigcirc 0.99$

5. $3.41 \bigcirc 3.41$

6. $2.563 \bigcirc 2.573$

For exercises 7–9, use the cost of each school supply.



7. Do the pencils or the highlighters cost more?

8. Write a comparison statement for the cost of the pens and the pencils.

9. Which school supply is the most expensive? Which school supply is the least expensive? Explain how you know.



What is each decimal rounded to the nearest whole number?
You can use a number line or place value.

1. 78.39

2. 4.07

3. 12.7

4. 15.55

What is each decimal rounded to the nearest tenth?
You can use a number line or place value.

5. 42.89

6. 3.65

7. 16.12

8. 98.17

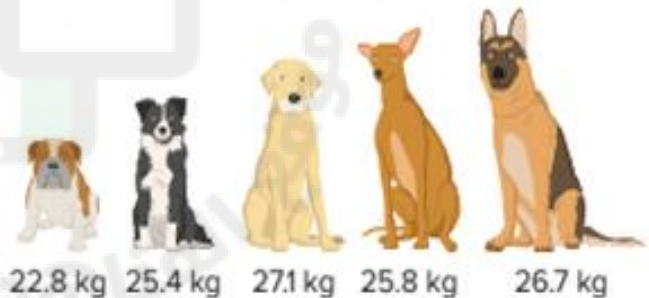
9. Danica rounded a number to the nearest tenth to get 14.7.
What number could she have rounded to get this answer?



10. Which statements are *true*?

- A. The decimal 43.678 rounded to the nearest tenth is 43.6.
- B. The decimal 43.678 rounded to the nearest tenth is 43.7.
- C. The decimal 43.678 rounded to the nearest hundredth is 43.68.
- D. The decimal 43.678 rounded to the nearest hundredth is 43.67.

11. The masses of five different dogs are shown. Round each mass to the nearest whole number.



Unit 4

Page: 94

Use rounding to estimate the sum.

$$\begin{array}{r} 8.25 \quad 3.62 \\ \downarrow \quad \downarrow \\ 8 + 4 = 12 \end{array}$$

The photos and music take up about 12 gigabytes of storage.

Math is... **Choosing Tools**

What strategies do we know for estimating sums?

Next, use compatible numbers to estimate the difference.

$$\begin{array}{r} 32 \quad 11.87 \\ \downarrow \quad \downarrow \\ 32 - 12 = 20 \end{array}$$

The total storage of photos and music is 11.87 gigabytes. Is this sum reasonable?

The phone has about 20 gigabytes of storage left.

Work Together

About how much more does Hero weigh than Layla? How did you determine which estimation strategy to use?

Layla



(82.98)

Hero



(86.74)



+201143153175

مستر / محمد إبراهيم

What is a reasonable estimate for the sum or difference?
Explain the strategy you used.

1. $9.86 + 4.30$

___ + ___ = ___

2. $43.85 + 56.01$

___ + ___ = ___

3. $3.92 + 6.14$

___ + ___ = ___

4. $24.73 + 26.05$

___ + ___ = ___

5. $8.32 - 5.9$

___ - ___ = ___

6. $88.4 - 10.96$

___ - ___ = ___

7. $16.28 - 5.9$

___ - ___ = ___

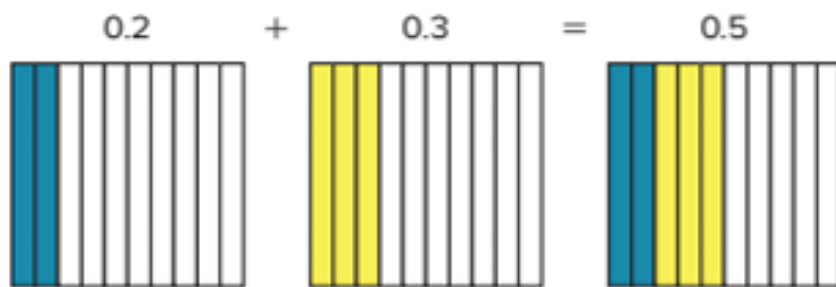
8. $5.42 - 1.7$

___ - ___ = ___

9. **STEM Connection** A baby rabbit weighs 24.8 grams. A veterinarian predicts the rabbit will weigh about 64.5 grams by the next visit. About how much weight will the rabbit gain?



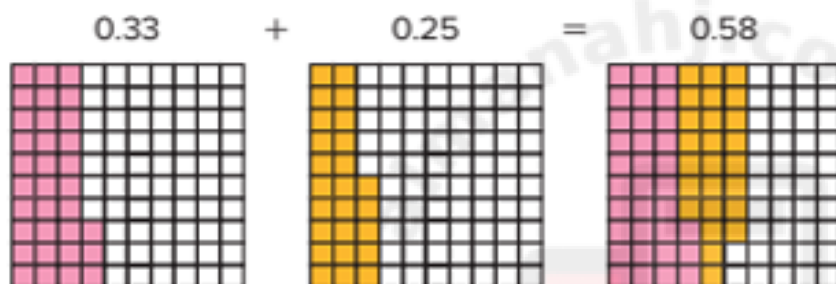
Deja walks from home to the bookstore, then to the playground.



Decimal grids can help you solve the equation.

Deja walked 0.5 mile.

Deja walks from the playground to school, then to the park.



Deja walked 0.58 mile.

Math is... Choosing Tools

Work Together

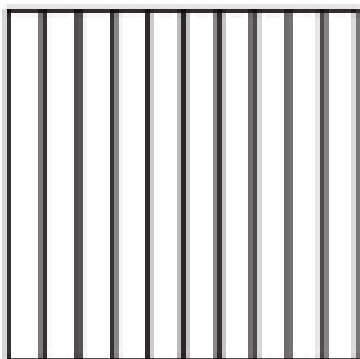
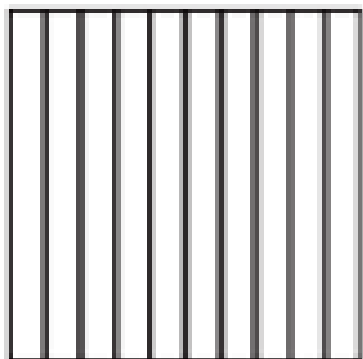
René bought potatoes and turnips.
How much do the potatoes and turnips weigh? Use decimal grids to solve.



0.9 kg



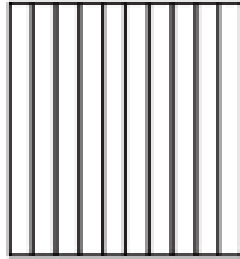
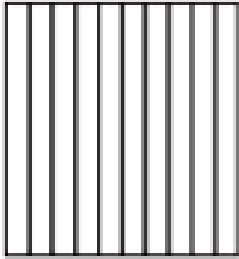
0.3 kg



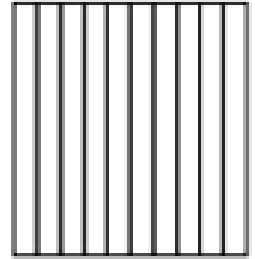
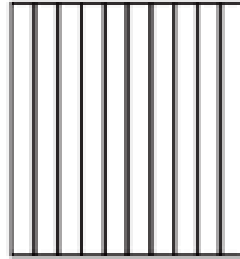
What is the sum? Use the decimal grids.

Page: 101

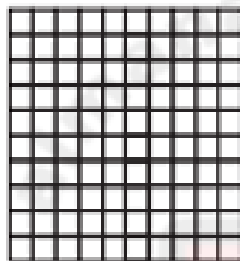
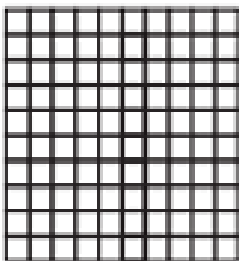
1. $0.7 + 0.1 =$ _____



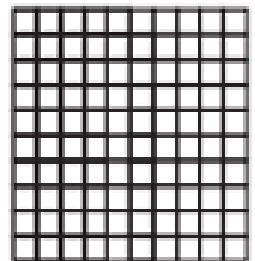
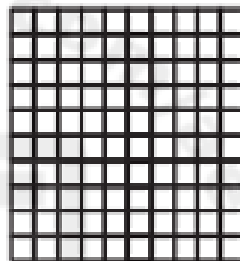
2. $0.5 + 0.8 =$ _____



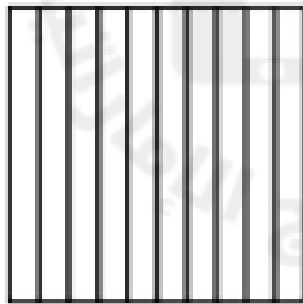
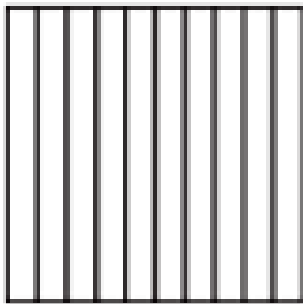
3. $0.02 + 0.09 =$ _____



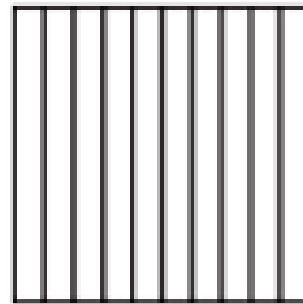
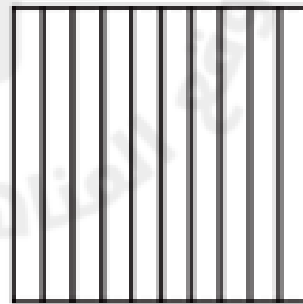
4. $0.78 + 0.64 =$ _____



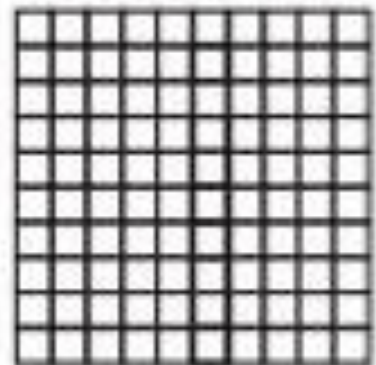
5. $0.2 + 0.7 =$ _____



6. $0.5 + 0.6 =$ _____



7. $0.08 + 0.06 =$ _____



Page: 104

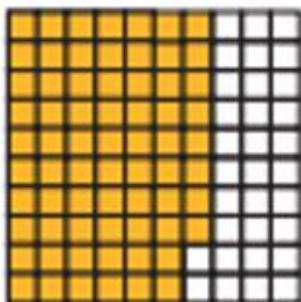
أسئلة كتابية

7 tenths is the same as 70 hundredths.



0.7

+

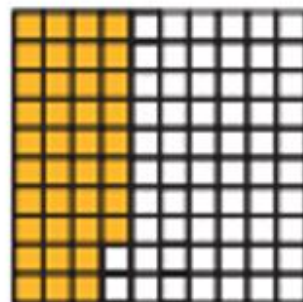


0.68

=



1.38

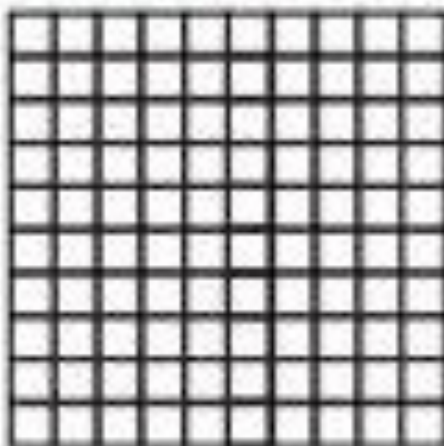
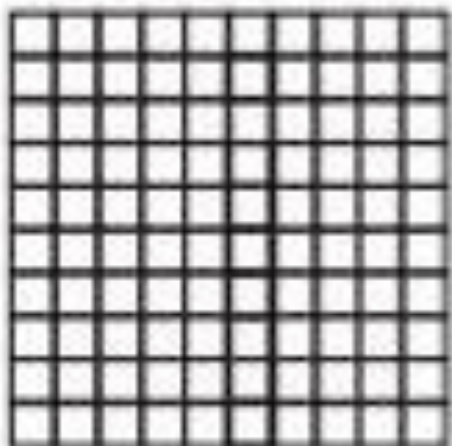


Work Together

What is the total weight of the chocolate bits and raisins?

Use a decimal grid to solve.

Ingredient	Weight (lb)
Chocolate bits	0.6
Raisins	0.59

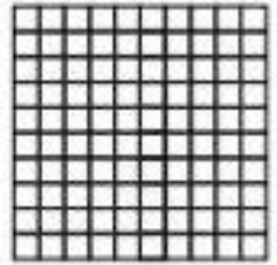
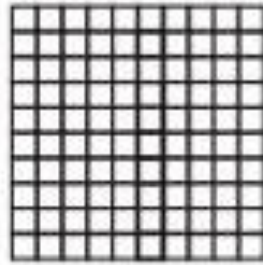
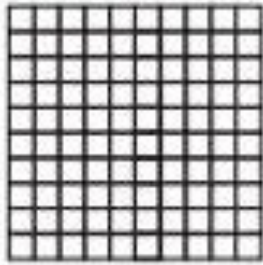
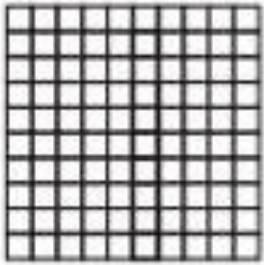


أسئلة كتابية

What is the sum? Use the decimal grids to solve.

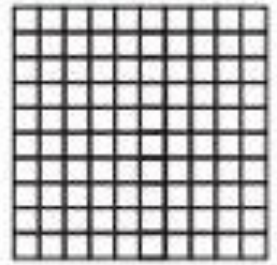
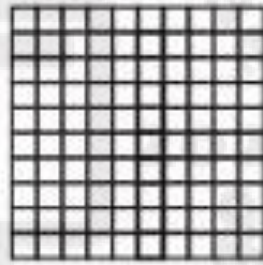
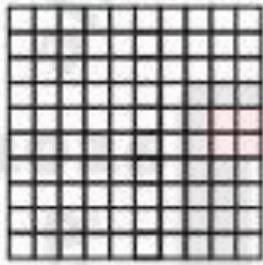
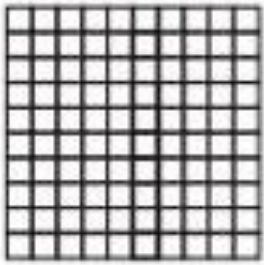
1. $0.9 + 0.02 =$ _____

2. $0.14 + 0.5 =$ _____



3. $0.45 + 0.4 =$ _____

4. $0.6 + 0.09 =$ _____



What is the sum? Use decimal grids to solve.

5. $0.7 + 0.18 =$ _____

6. $0.86 + 0.5 =$ _____

7. $0.44 + 0.6 =$ _____

8. $0.1 + 0.89 =$ _____



You can use partial sums to determine the total cost.

► **One Way** Decompose by place value.

$$17.31 + 12.45 = c$$

$$10 + 7 + 0.3 + 0.01$$

$$10 + 2 + 0.4 + 0.05$$

$$10 + 10 = 20$$

$$7 + 2 = 9$$

$$0.3 + 0.4 = 0.7$$

Find partial sums

$$0.01 + 0.05 = 0.06$$

Add partial sums
to find the sum

$$20 + 9 + 0.7 + 0.06 = 29.76$$

► **Another Way** Decompose into whole numbers and decimals.

$$17.31 + 12.45 = c$$

$$17 + 0.31$$

$$12 + 0.45$$

$$17 + 12 = 29$$

Find partial sums

$$0.31 + 0.45 = 0.76$$

Add partial sums
to find the sum

$$29 + 0.76 = 29.76$$

Work Together

Michael drove 23.06 kilometers on Saturday and 16.38 kilometers on Sunday. What is the total distance he drove during the two days?



What is the sum? Use partial sums to solve.

Page: 109

1. $2.57 + 8.4$

$= 2 + 0.5 + 0.07 + 8 + 0.4$

$=$ _____

2. $6.9 + 0.31$

$= 6 + 0.9 + 0.3 + 0.01$

$=$ _____

3. $35.12 + 64.73 =$ _____

4. $70.34 + 21.52 =$ _____

5. $14.53 + 11.2 =$ _____

6. $104.75 + 21.9 =$ _____

7. Mattis earns \$22.50 shoveling snow. Later, he finds \$0.82 in his backpack. How much money does he have now?



8. Josh's suitcase weighs 13.4 pounds. Karen's suitcase weighs 21.63 pounds. What is the total weight of the two suitcases?
9. Kim's goal was to run at least 10 miles this week to train for her cross-country race. On Tuesday she ran 3.57 miles, and on Wednesday she ran 6.48 miles. Did Kim reach her goal? Explain.

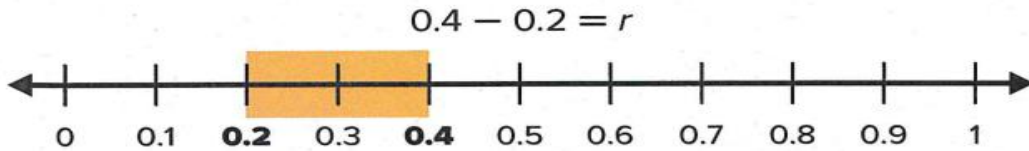
Q.5. Which of the following way is correct way to find $26.34 + 12.53$?

- (a) $2 + 1 + 6 + 2 + 3 + 5 + 4 + 3$
- (b) $2 + 1 + 6 + 2 + 0.3 + 0.5 + 0.4 + 0.3$
- (c) $20 + 10 + 6 + 2 + 0.3 + 0.5 + 0.04 + 0.03$
- (d) $20 + 10 + 6 + 2 + 3 + 5 + 4 + 3$



أسئلة كتابية

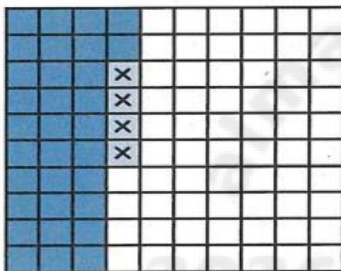
Use a number line to find how much more is shaded red than green.



There is 0.2 more shaded red than green.

Use a decimal grid to find how much more is shaded yellow than purple.

$$0.36 - 0.04 = y$$



Math is... Precision

How is each quantity shown on the decimal grid?

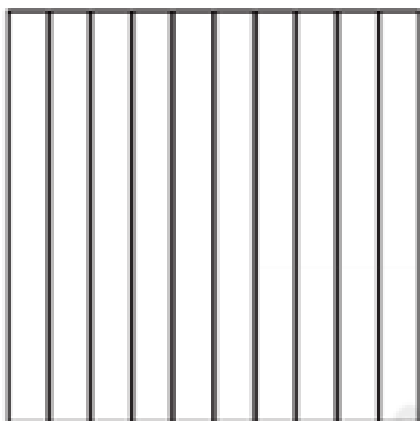
There is 0.32 more shaded yellow than purple.

How much greater is the mass of an emu egg than a chicken egg? Explain.

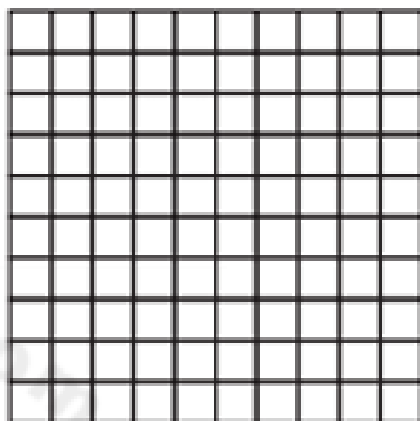


What is the difference? Use the decimal grid to solve.

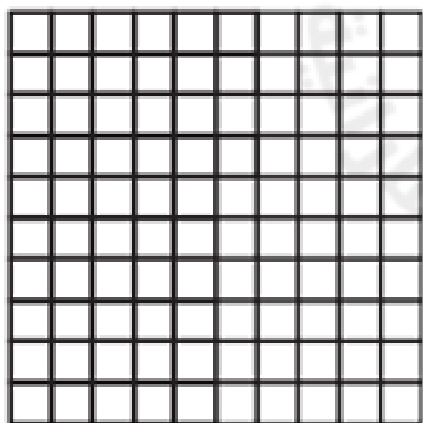
1. $0.7 - 0.1 =$ _____



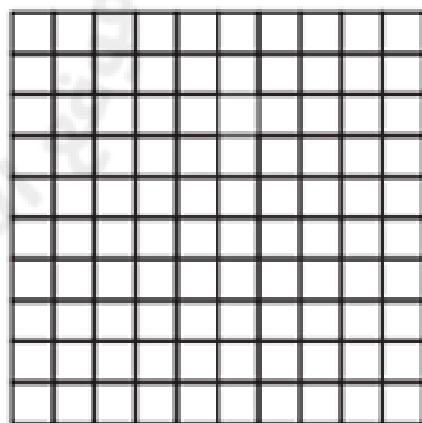
2. $0.09 - 0.02 =$ _____



3. $0.54 - 0.38 =$ _____

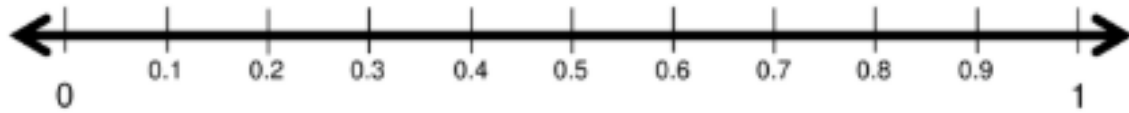


4. $0.25 - 0.11 =$ _____

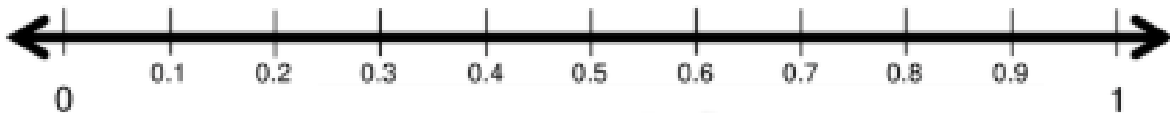


What is the difference? Use a number line to solve.

5. $0.7 - 0.2 =$ _____



6. $0.6 - 0.4 =$ _____

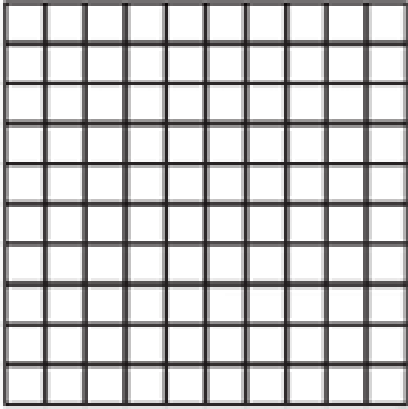


7. Malik has \$0.85. He bought a pencil for \$0.50. Does he have enough money left to buy a folder for \$0.30? Explain.

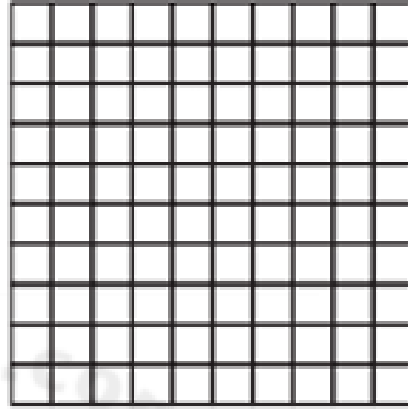


What is the difference? Use the decimal grids to solve.

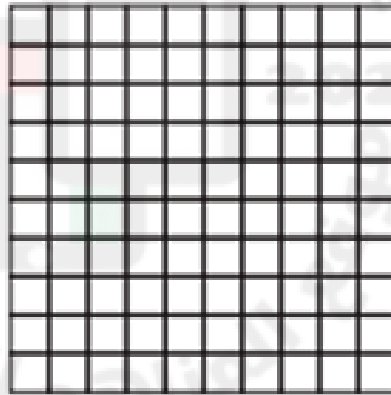
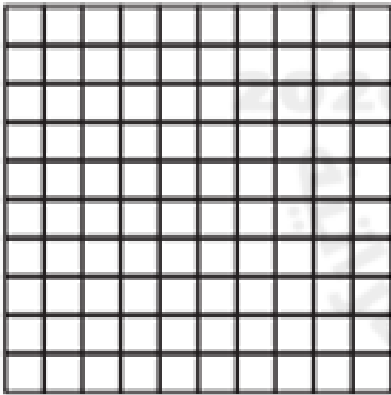
1. $0.54 - 0.1 =$ _____



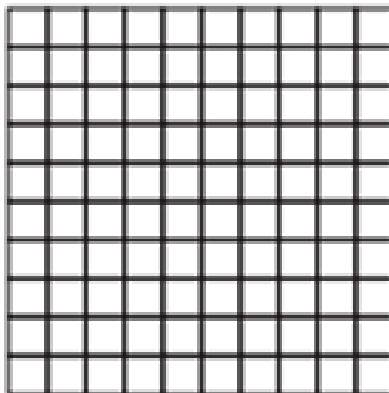
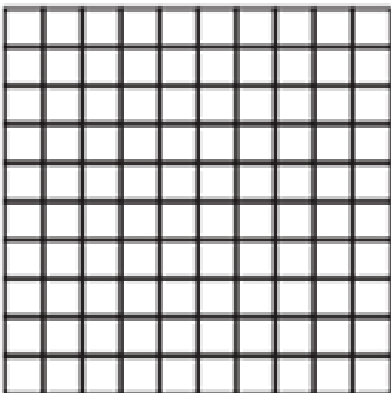
2. $0.9 - 0.02 =$ _____



3. $1.07 - 0.3 =$ _____



4. $1.28 - 0.7 =$ _____



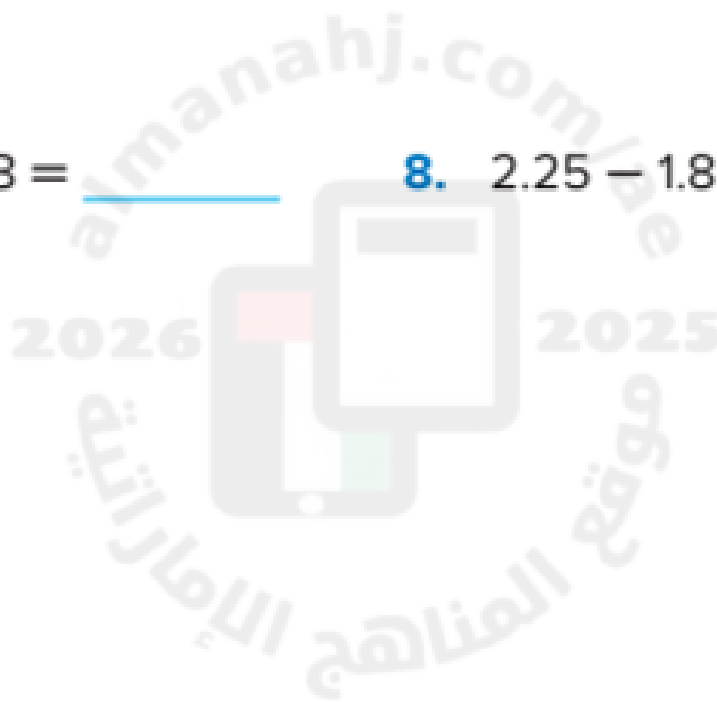
What is the difference? Use decimal grids to solve.

5. $2.3 - 0.27 =$ _____

6. $2.7 - 1.68 =$ _____

7. $1.74 - 0.8 =$ _____

8. $2.25 - 1.8 =$ _____



Learn

How can you determine how much more precipitation Olympia, Washington receives than Salem, Oregon?

Average P
Novemb

Page: 120



► **One Way** Decompose by place value to subtract.

$$23.89 - 19.29 = p$$

$$23.89 - 10 = 13.89$$

$$13.89 - 9 = 4.89$$

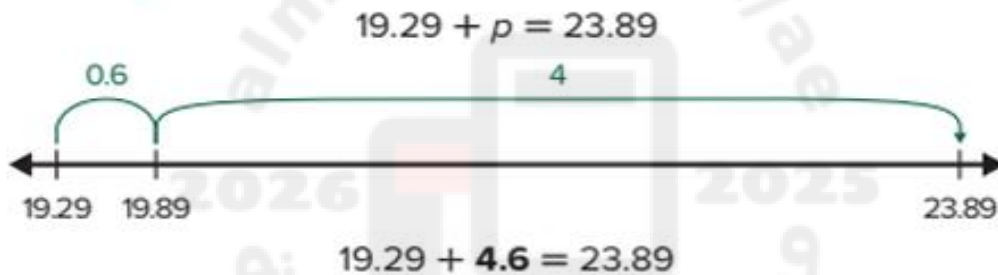
$$4.89 - 0.2 = 4.69$$

$$4.69 - 0.09 = \mathbf{4.60}$$

Math is... Choosing Tools

Is the calculated answer reasonable? How do you know?

► **Another Way** Count on a number line to subtract.



On average, Olympia receives 4.6 inches more precipitation than Salem.

Work Together

Find the difference and explain your strategy.

$$57 - 32.64$$



Decompose by place value to find the difference.

1. $8.57 - 2.4$

2. $7.73 - 5.1$

$8.57 - 2 =$ _____

$7.73 - 5 =$ _____

_____ $- 0.4 =$ _____

_____ $- 0.1 =$ _____

$8.57 - 2.4 =$ _____

$7.73 - 5.1 =$ _____

Count on to find the difference.

3. $6.31 - 0.9 =$ _____



4. $64.19 - 35.75 =$ _____



What is the difference? Show your work.

5. $36.33 - 32.29 =$ _____

6. $48.56 - 18.21 =$ _____



Learn

At Week 1, Dean had 10 pennies Each week after, Dean increased the number of pennies by 10 times the previous week.

During which week will Dean have 1,000,000 pennies?

You can organize the information in a table to help determine the solution.

Math is... Patterns

What patterns do you notice in the table?

Week	Multiplication Expression	Number of Pennies Added each Week
1	10	10
2	10×10	100
3	$10 \times 10 \times 10$	1,000
4	$10 \times 10 \times 10 \times 10$	10,000
5	$10 \times 10 \times 10 \times 10 \times 10$	100,000
6	$10 \times 10 \times 10 \times 10 \times 10 \times 10$	1,000,000

A **power of 10** is the product of 10 multiplied by itself a number of times.

Dean will have 1,000,000 pennies in Week 6.

You can write a power of 10 as a multiplication expression with factors of 10.

You can also write a power of 10 in **exponential form** using a **base** and an **exponent**.

$10 \times 10 = 10^2$ ← exponent
2 factors base

Work Together

Write 10^8 as a multiplication expression. Then, find the product.



Write the exponential form as a multiplication expression.

1. 10^4

2. 10^2

3. 10^3

4. 10^6

Write the exponential form.

5. $10 \times 10 \times 10 =$ _____

6. $10 \times 10 \times 10 \times 10 \times 10 =$ _____

7. $10 \times 10 \times 10 \times 10 =$ _____

8. $10 \times 10 =$ _____

Write the exponential form of each power of 10.

9. $10 =$ _____

10. $1,000 =$ _____

11. $100 =$ _____

12. $10,000 =$ _____

13. Rachel finds the value of 10^5 as shown. Do you agree with her solution? Tell why.

$$10^5 = 10 \times 5 = 50$$



What is the product? Use patterns to solve.

1. $12 \times 10 =$ _____

$12 \times 100 =$ _____

$12 \times 1,000 =$ _____

2. $24 \times 1,000 =$ _____

$24 \times 10,000 =$ _____

$24 \times 100,000 =$ _____

3. $33 \times 10^2 =$ _____

$33 \times 10^3 =$ _____

$33 \times 10^4 =$ _____

4. $57 \times 10^4 =$ _____

$57 \times 10^5 =$ _____

$57 \times 10^6 =$ _____

What is the product?

5. 23×10^3

6. 581×10^2

7. 60×10^4

8. 103×10^2

What is the unknown factor?

9. $571 \times$ _____ $= 5,710$ 10. $43 \times$ _____ $= 4,300,000$

11. $6 \times$ _____ $= 6,000$ 12. $28 \times$ _____ $= 280,000$

13. How can you describe the relationship between the equations shown?

$6 \times 10^5 = 600,000$

$6 \times 10^7 = 60,000,000$

$6 \times 10^9 = 6,000,000,000$



Learn

On Saturday, 432 people go to the theater.

About how much money does the theater collect on Saturday?



You can use strategies you know to determine a reasonable estimate.

► One Way Compatible numbers

$$432 \times 13$$

$$\begin{aligned} &\downarrow \quad \downarrow \\ 400 \times 15 &= 4 \times 100 \times 15 \\ &= 4 \times 15 \times 100 \\ &= 6,000 \end{aligned}$$

The theater collects about \$6,000.

► Another Way Rounded factors

$$432 \times 13$$

$$\begin{aligned} &\downarrow \quad \downarrow \\ 430 \times 10 &= 4,300 \end{aligned}$$

The theater collects about \$4,300.

A reasonable estimate is between \$4,300 and \$6,000.

You can use these estimates to determine that the calculated solution of \$5,616 is a reasonable answer.

Math is... Choosing Tools

What can and can't an estimated product tell you?

Estimated products can help you determine whether calculations are reasonable.

Work Together

Estimate the product of 879×36 .

Which strategy did you use? Explain why.

Estimate the product.

1. 643×18

2. 325×62

3. 438×27

4. 572×49

5. On a school trip, 54 students went to a museum. Each ticket cost \$23. About how much did all students spend on tickets?

6. The town library has 478 shelves. Each shelf holds 38 books. About how many books does the library have?



7. A vendor at a fair is selling her paintings for \$23 each. Over the course of the fair, 339 people purchase her paintings. About how much did the vendor earn over the course of the fair?

8. The fifth graders sold 405 baked goods at the bake sale. About how much did the fifth graders earn?



9. **Error Analysis** Han estimates that the product of 492 and 32 will be 1,200. How do you respond to Han?



How can you determine the area of the youth soccer field?

You can use an area model to solve $72 \times 114 = A$.



Decompose the factors by place value.

	100	+	10	+	4
70					
+					
2					

Determine partial products.

	100	+	10	+	4
70	7,000		700		280
+					
2	200		20		8

Add the partial products to determine the product.

$$7,000 + 700 + 280 + 200 + 20 + 8 = 8,208$$

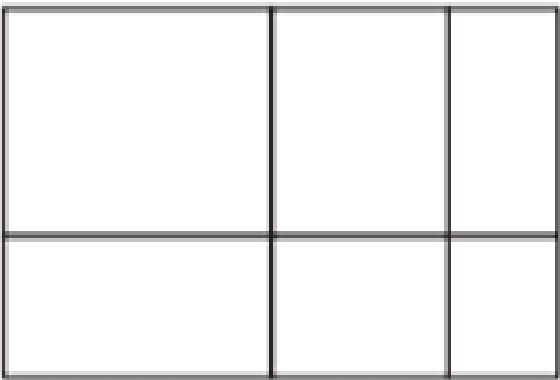
The area of the soccer field is 8,208 square feet.

Math is... Modeling

How does an area model help you understand multiplication?

Work Together

Use an area model and partial products to determine the product of 304×68 .



Complete the area model. Then solve to find the product.

1.

100 + 50 + 4

30

3,000

+

6

600

2.

400 + 20 + 1

50

20,000

50

+

2

3.

$15 \times 24 =$



4. $28 \times 132 =$ _____

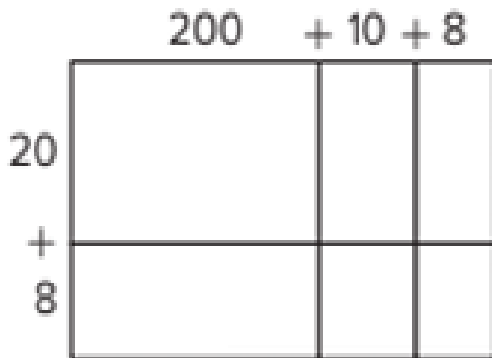
5. $33 \times 78 =$ _____

6. $72 \times 225 =$ _____

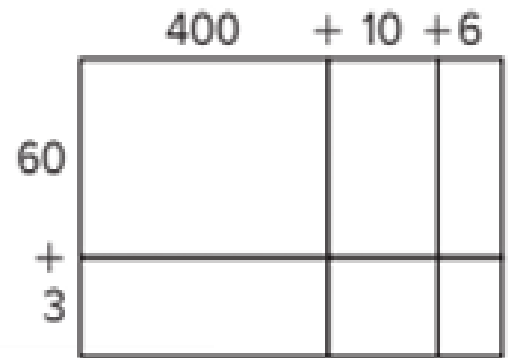


Write the multiplication equation based on the area model.
Then solve to find the product.

7.



8.



Learn

Page152

A stadium has 164 rows of seats.

How many seats are in the stadium?



You can use partial products to solve the problem.

Decompose the factors
by place value.

$$164 = 100 + 60 + 4$$

$$82 = 80 + 2$$

Determine the partial products.

$$\begin{array}{r} 164 \\ \times 82 \\ \hline 8,000 \\ 4,800 \\ 320 \\ 200 \\ 120 \\ + 8 \\ \hline 13,448 \end{array}$$

Add the partial
products.

Multiply 80 by 100, 60, and 4.

Multiply 2 by 100, 60, and 4.

There are 13,448 seats in the stadium.

Math is... Generalizations

How does the area model

Work Together

What is the product? Use partial products to solve.
Show 142×63 vertically.



Find the unknown partial products. Then find the product.

1.

$$\begin{array}{r} 325 \\ \times 73 \\ \hline 21,000 \\ 1,400 \\ 350 \\ \square \\ \square \\ + \square \\ \hline \square \end{array}$$

2.

$$\begin{array}{r} 104 \\ \times 28 \\ \hline 32 \\ 800 \\ \square \\ + \square \\ \hline \square \end{array}$$

Page153

What is the product? Use partial products to solve.

3.

$$\begin{array}{r} 17 \\ \times 86 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 24 \\ \times 129 \\ \hline \end{array}$$



5.
$$\begin{array}{r} 36 \\ \times 93 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 222 \\ \times 58 \\ \hline \end{array}$$

7. A sporting goods store sold 24 mountain bikes. How much money did they make selling bikes?



8. The store also sold 12 mountain bike and scooter packages each for \$367. How much money did they make?



Write the multiplication expression using factors of 10. Then, find the value.

Page175
U6 L1

1. 3.6×10^2

2. 7.2×10^3

3. 4.8×10^4

4. 1.9×10^2

5. Ashley rides the train to visit her grandmother. She lives 1.2×10^2 miles away from her grandmother. How many miles does she travel?

6. Juan walks 4.7×10^3 meters from his house to the museum. Mary walks 9.3×10^2 meters from her house to the museum. Who walks farther, Juan or Mary? How do you know?

7. **Error Analysis** Sasha multiplied the decimals as shown. How can you help Sasha understand the patterns in multiplying decimals by powers of 10?

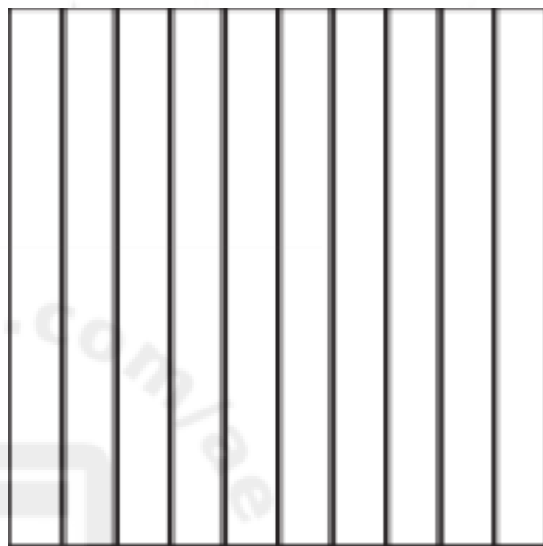
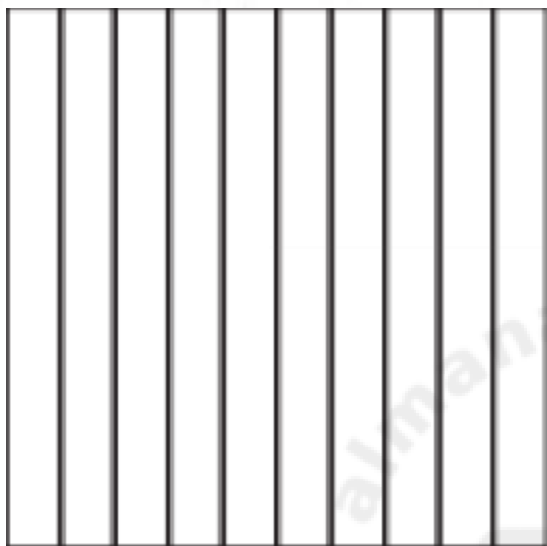
$$3.5 \times 10^2 = 3,500$$

$$3.5 \times 10^3 = 35,000$$

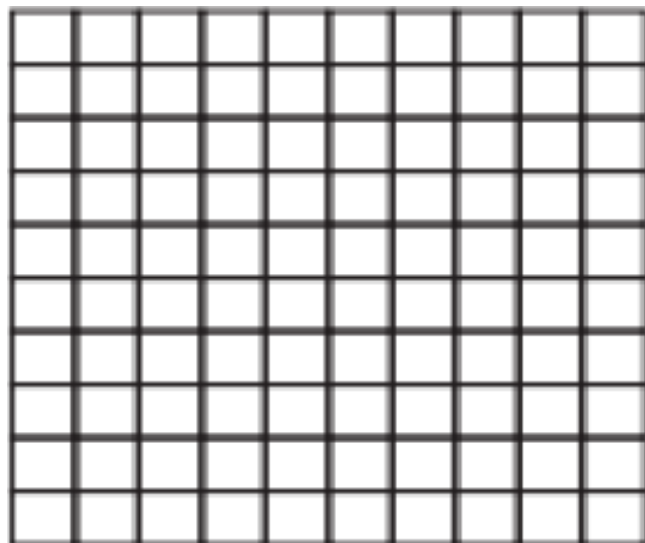
$$3.5 \times 10^4 = 350,000$$



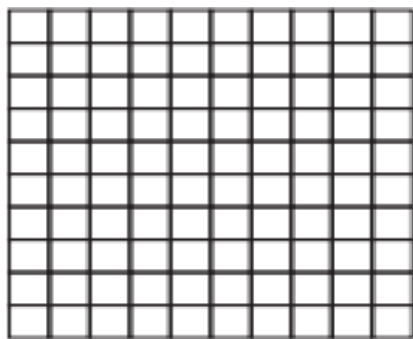
Rin needs 0.3 cup of flour per serving to make bread. Rin wants to make 4 servings. How many cups of flour does he need?



1. Laura pours 0.08 liter of milk into her tea each day. How much milk does Laura use in her tea in one week?



2. Jason buys 0.9 pound of cabbage. The grocery store charges \$0.60 per pound. How much will Jason pay for the cabbage?



3. Tonya cuts 0.4 meter of ribbon for each gift she wraps. She wraps 6 gifts. How much ribbon does Tonya use?

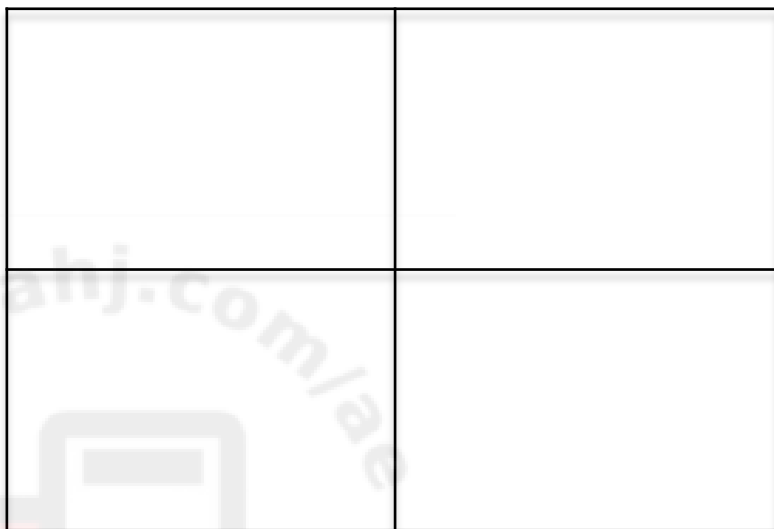
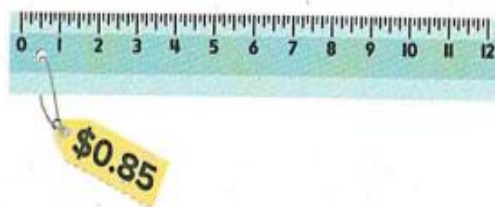


4. **STEM Connection** A rock has a mass of 2.4 kilograms. Maya estimates that the amount of granite in the rock is 0.3 of the full mass of the rock. How much granite is in the rock?



 Work Together

A teacher bought 18 rulers. What was the total cost of the rulers? Use an area model to solve.



What is the product? Use an area model to solve.

1. $32 \times 1.5 =$ _____

2. $14 \times 2.3 =$ _____

3. $7.1 \times 8 =$ _____

4. $6.2 \times 1.5 =$ _____



5. $9.6 \times 5.5 =$ _____

6. $1.9 \times 2.4 =$ _____

7. A tent repair shop charges \$9.50 for every 1 meter of stitching repaired on a tent. Michael brings in his tent for repairs. It needs 1.2 meters of stitching. How much will the repairs cost him?

8. **Error Analysis** Evelyn used an area model to multiply 7.4×1.2 as shown. How do you respond to her work?

	1	+	2
7	$7 \times 1 = 7$		$7 \times 2 = 14$
+			
4	$4 \times 1 = 4$		$4 \times 2 = 8$

$$7 + 14 + 4 + 8 = 33$$



Complete each sentence.

1. 3.8 is _____ of 38.

So, 3.8×25 is _____ of the product 38×25 .

2. 0.45 is _____ of 45.

So, 0.45×16 is _____ of the product 45×16 .

3. 7.8 is _____ of 78 and 9.2 is _____ of 92.

So, 7.8×9.2 is _____ of the product 78×92 .

What is the product? Use patterns to solve.

4. $45 \times 17 = 765$

$45 \times 1.7 =$ _____

$45 \times 0.17 =$ _____

5. $32 \times 14 =$ _____

$32 \times 1.4 = 44.8$

$3.2 \times 1.4 =$ _____

6. $16 \times 89 = 1,424$

$16 \times 8.9 =$ _____

$16 \times 0.89 =$ _____

7. $61 \times 22 =$ _____

$6.1 \times 22 = 134.2$

$6.1 \times 2.2 =$ _____

8. $96 \times 55 =$ _____

$96 \times 5.5 =$ _____

$9.6 \times 5.5 = 52.8$

9. $19 \times 42 =$ _____

$1.9 \times 42 = 79.8$

$1.9 \times 4.2 =$ _____

10. $67 \times 34 =$ _____

$67 \times 3.4 =$ _____

$6.7 \times 3.4 =$ _____

11. $82 \times 67 =$ _____

$82 \times 6.7 =$ _____

$8.2 \times 6.7 =$ _____

What is the product? Explain the strategy you used to solve.

1. $2.9 \times 0.7 = d$

2. $5.6 \times 3.2 = b$

3. Each bottle holds the same amount. How much water can these bottles hold?



4. Rebecca cut these ribbons to the same length. How much ribbon did Rebecca use in all?



5. Experts recommend that people have 4.7 grams of potassium per day. Last week Marcus averaged 0.9 times as much potassium as the recommendation. How much potassium did Marcus average each day last week?
6. A pitcher has a capacity of 3.9 liters. A cooler has a capacity 9.2 times greater. What is the capacity of the cooler?

Solve. Explain the strategy used to solve.

7. Kara has a bag of apples. Each apple weighs 0.4 pound on average. There are 17 apples in her bag. What is the total weight of her apples?



Page: 208 U7L1

$$12,000 \div 40 = n$$

You can use a basic fact and patterns to help you solve the equation.

basic fact

$$12 \div 4 = 3$$

$$120 \div 40 = 3$$

Both the dividend and divisor are 10 times as much, so quotient is the same.

When only the dividend is 10 times as much, the quotient is also 10 times as much.

$$120 \div 40 = 3$$

$$1,200 \div 40 = 30$$

As the number of zeros in the dividend increases, the number of zeros in the quotient also increases.

$$12,000 \div 40 = 300$$

There are 300 rolls of nickels.

Math is... Structure

Work Together

What is the quotient? How can you use a basic fact and patterns to solve?

$$300 \div 50 =$$

$$3,000 \div 50 =$$

$$30,000 \div 50 =$$



Use a basic fact and patterns to solve.

Page: 209 U7L1

1. $15 \div \underline{\hspace{2cm}} = 5$

$150 \div 30 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \div 30 = 50$

$15,000 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2. $32 \div 8 = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \div 80 = \underline{\hspace{2cm}}$

$3,200 \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

3. $20,000 \div 40 = \underline{\hspace{2cm}}$

4. $15,000 \div 30 = \underline{\hspace{2cm}}$

5. $18,000 \div 60 = \underline{\hspace{2cm}}$

6. $16,000 \div 80 = \underline{\hspace{2cm}}$

7. $8,000 \div 40 = \underline{\hspace{2cm}}$

8. $25,000 \div 50 = \underline{\hspace{2cm}}$

9. $32,000 \div 80 = \underline{\hspace{2cm}}$

10. $9,000 \div 30 = \underline{\hspace{2cm}}$



Learn

An adult bison weighs 1,752 pounds, which is 24 times the weight of a bison calf.

How much does the bison calf weigh?

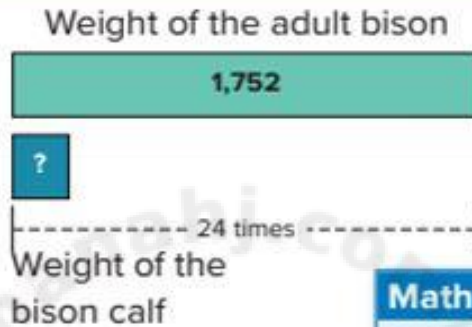
You can use partial quotients to solve division equations.



Page: 224 U7L5

A bar diagram can represent the problem.

$$1,752 \div 24 = ?$$



Math is... Connections

What is another way to show multiplicative comparison?

Use partial quotients to solve.

$$\begin{array}{r} 24 \overline{) 1,752} \\ \underline{-1,200} 50 \\ 552 \\ \underline{-480} 20 \\ 72 \\ \underline{-72} 3 \\ 0 73 \end{array}$$

$$1,752 \div 24 = 73$$

The bison calf weighs 73 pounds.

Work Together

What is the quotient of $2,356 \div 38$? Use the partial quotients strategy to help you solve the problem.

38	
$50 \times 38 = 1,900$	50
$10 \times 38 = 380$	10
$2 \times 38 = 76$	2
	62

$$\begin{array}{r} 38 \overline{) 2,356} \\ \underline{} \\ \underline{} \\ \underline{} \\ \underline{} \\ \underline{} \\ 0 \end{array}$$



What is the quotient? Use partial quotients to solve.

Page: 224 U7L5

1. $819 \div 39 =$ _____

2. $988 \div 26 =$ _____

3. $1,215 \div 27 =$ _____

4. $3,432 \div 66 =$ _____

5. **STEM Connection** An astronomer is studying two comets.

Comet A has an orbit that is 187 years. Comet A has an orbit that is 17 times as long as the Comet B. How long is the orbit of the Comet B?

