

My Math Notebooks

Name.....

Class

Class

"Success in math isn't about being born smart it's about working hard, believing in yourself, and never giving up. Keep pushing forward, and the numbers will add up to your dreams!"

Ms.Layla Albayyary

Following Up Sheet

Date of checking

Page #

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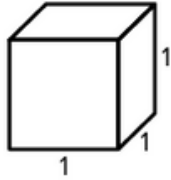
2.1 Understand Volume

Review

Volume is the space inside a three-dimensional figure.

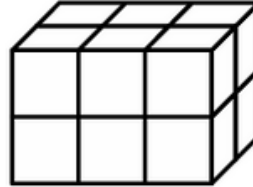
You can fill the inside of the figure with unit cubes to determine its volume.

1 unit cube

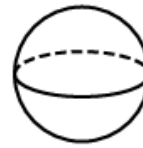
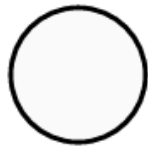
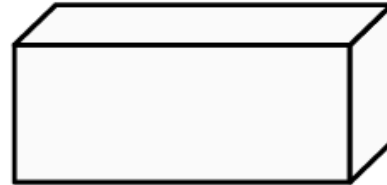
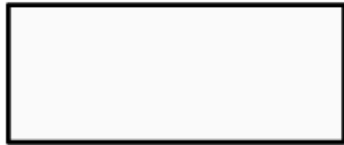


1 cubic unit

The volume of this rectangular prism is 12 cubic units.



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



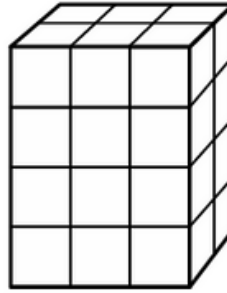
2. Tell which type of unit you would use to measure each of the following. Choose from length units, square units, or cubic units.
- a piece of string _____
 - the amount of space inside a refrigerator _____
 - the amount of floor space a carpet covers _____

2.2 Use Unit cube to determine volume

Review

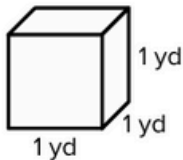
The rectangular prism can hold 24 unit cubes.

The volume of the prism is 24 cubic units.

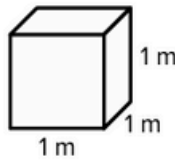


Find the volume of each cube.

1. _____ cubic yd

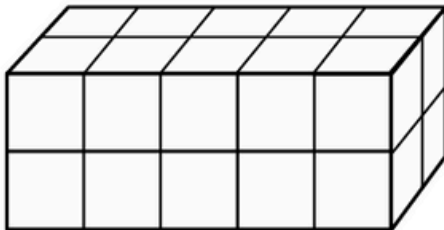


2. _____ cubic m

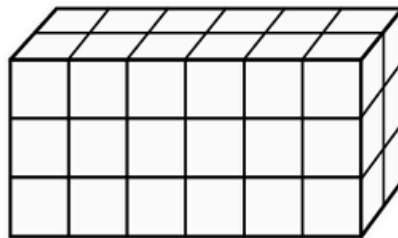


Find the volume of each rectangular prism.

3. _____ cubic units

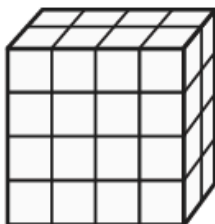


4. _____ cubic units

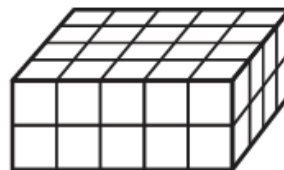


Determine the volume of each prism.

5. _____ cubic units



6. _____ cubic units



2.3 Use Formula to determine volume

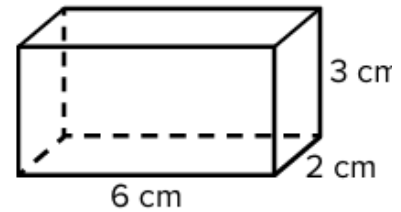
Review

$$V = l \times w \times h \text{ and } V = B \times h.$$

A rectangular prism has a length of 6 centimeters, a width of 2 centimeters, and a height of 3 centimeters.

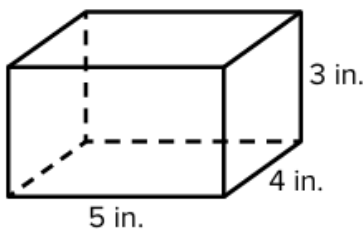
$$V = l \times w \times h = 6 \times 2 \times 3 = 36 \text{ cubic cm.}$$

$$V = B \times h = 12 \times 3 = 36 \text{ cubic cm.}$$



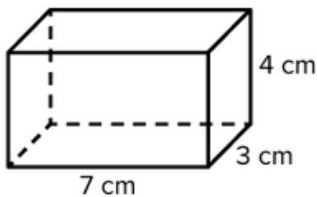
1. $V = \underline{\hspace{1cm}} \text{ in.} \times \underline{\hspace{1cm}} \text{ in.} \times \underline{\hspace{1cm}} \text{ in.}$

$$V = \underline{\hspace{1cm}} \text{ cubic in.}$$



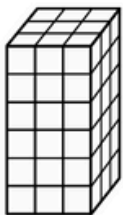
2. $V = \underline{\hspace{1cm}} \text{ cm} \times \underline{\hspace{1cm}} \text{ cm} \times \underline{\hspace{1cm}} \text{ cm}$

$$V = \underline{\hspace{1cm}} \text{ cubic cm}$$



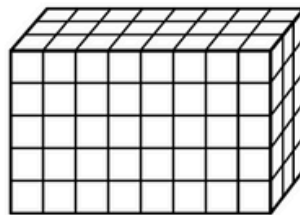
3. $V = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$

$$V = \underline{\hspace{1cm}} \text{ cubic units}$$



4. $V = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$

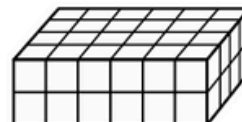
$$V = \underline{\hspace{1cm}} \text{ cubic units}$$



5. Use the two volume formulas, $V = l \times w \times h$ and $V = B \times h$, to write multiplication equations for the volume of the rectangular prism.

$$V = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

$$V = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$



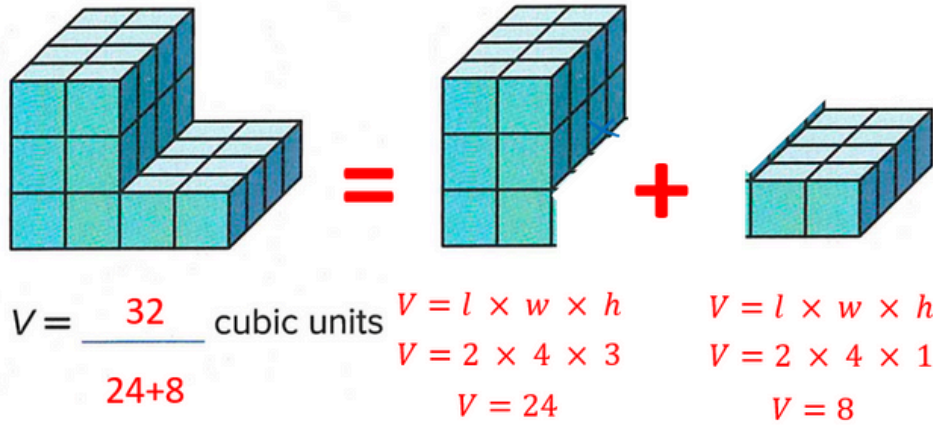
6. Calculate the volume of a video game console with the dimensions 9 inches by 11 inches by 3 inches.

$$V = \underline{\hspace{1cm}} \text{ in.} \times \underline{\hspace{1cm}} \text{ in.} \times \underline{\hspace{1cm}} \text{ in.}$$

$$V = \underline{\hspace{1cm}} \text{ cubic in.}$$

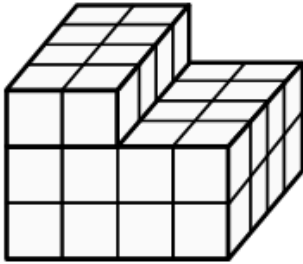
2.4 Determine the Volume of Composite Figures

Review

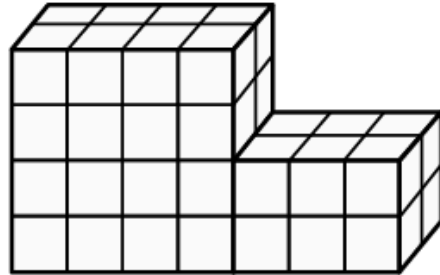


Find the volume of each composite solid figure.

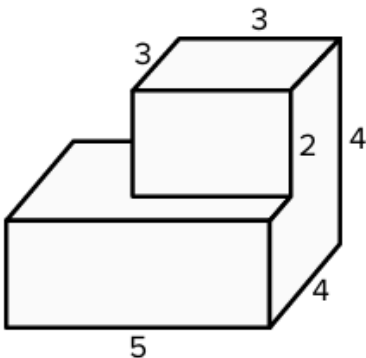
1. $V = \underline{\hspace{2cm}}$ cubic units



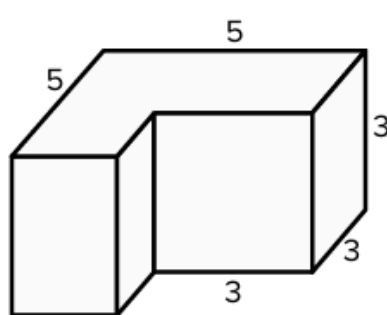
2. $V = \underline{\hspace{2cm}}$ cubic units



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



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



2.5 Solve Problems Involving Volume

Review

$$V = l \times w \times h$$

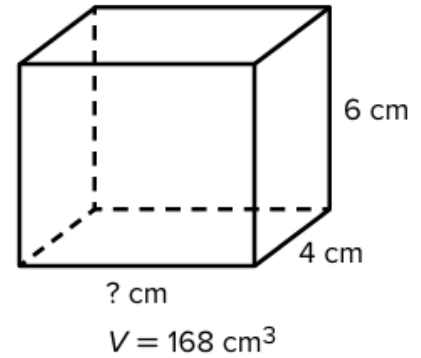
$$168 = l \times 4 \times 6$$

$$168 = l \times 24$$

$$168 \div 24 = l$$

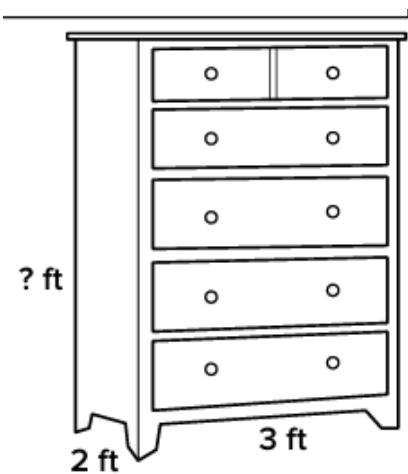
$$7 = l$$

The unknown length is 7 centimeters.

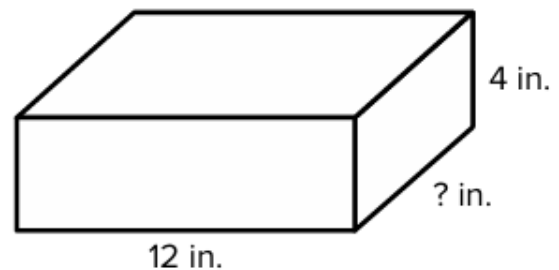


Solve.

- The volume of the dresser is 24 cubic feet. How tall is the dresser? Explain.

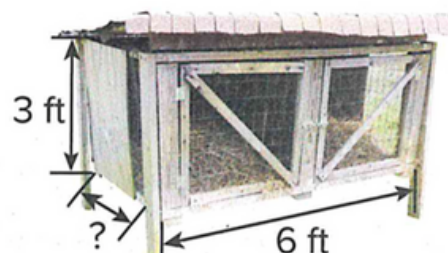


- The volume of the rectangular prism is 432 cubic inches. What is the width of the prism?



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

$$V = l \times w \times h$$



Review

You can recognize that the value of a digit represents 10 times as much as it represents in the place to its right and $\frac{1}{10}$ as much as it represents in the place to its left.

How does the value of the digit 4 in the thousands place compare to the value of the digit 4 in the hundreds place?

Billions Period			Millions Period			Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
					7	8	9	4	4	1	2

The value of the digit 4 in the thousands place is 4,000. The value of the digit 4 in the hundreds place is 400. 4,000 is 10 times as much as 400. 400 is $\frac{1}{10}$ the value of 4,000.

2. Compare the value of the digit 7 in each number.

Thousands Period			Ones Period		
hundreds	tens	ones	hundreds	tens	ones
9	1	4	5	7	2
		9	3	6	7

The value of the digit 7 in the tens place is _____ times as much as the value of the digit 7 in the _____ place.

3. A teacher has 600 stickers. 60 of the stickers are small. How much of the original 600 stickers do the 60 small stickers represent?

The 60 small stickers represent _____ the value of all the stickers.

4. Which of the following are correct? Choose all that apply.
- A. The digit 3 in 9,328 is 10 times as much as the digit 3 in 7,031.
 - B. The digit 3 in 9,328 is $\frac{1}{10}$ the value as the digit 3 in 3,064.
 - C. The digit 3 in 9,328 is 10 times as much as the digit 3 in 1,039.
 - D. The digit 3 in 9,328 is $\frac{1}{10}$ the value as the digit 3 in 4,930.
 - E. The digit 3 in 9,328 is 10 times as much as the digit 3 in 4,253.

3.2 Extend Place Value To Decimals

Review

Using the number 1.66, compare the value of the digit 6 in the tenths place to the value of the digit 6 in the hundredths place.

hundreds	tens	ones	tenths	hundredths	thousandths
		1	6	6	

The value of the digit 6 in the tenths place is 10 times the value of the digit 6 in the hundredths place.

The value of the digit 6 in the hundredths place is $\frac{1}{10}$ the value of the digit 6 in the tenths place.

4. Which of the following are correct? Choose all that apply.

- A. 0.09 is $\frac{1}{10}$ times as much as 0.90.
- B. 9.00 is 10 times as much as 0.09.
- C. 0.009 is $\frac{1}{10}$ times as much as 0.09.
- D. 0.9 is 10 times as much as 9.00.

5. Herma has \$0.40 in her change purse. Laquanda has \$4.00 in her change purse.

Compare the value of the digit 4 in each number. Choose all that apply.

- A. Laquanda has $\frac{1}{10}$ times as much money as Herma.
- B. Herma has 10 times as much money as Laquanda.
- C. Laquanda has 10 times as much money as Herma.
- D. Herma has $\frac{1}{10}$ times as much money as Laquanda.

6.

tens	ones	tenths	hundredths	thousandths
9	7	3	3	8

Find the correct value to complete the sentence.

The value of the digit 3 in the tenths place is _____ times as much as the value of the digit 3 in the hundredths place.

7. What are two different ways to describe the relationship between the values of each digit 8 in 3.884?

3.3 Read and Write Decimals

Review

Standard Form	Expanded Form
817	$800 + 10 + 7$
3249	$3000 + 200 + 40 + 9$
3.6	$3 + 0.6$
1.28	$1 + 0.2 + 0.08$

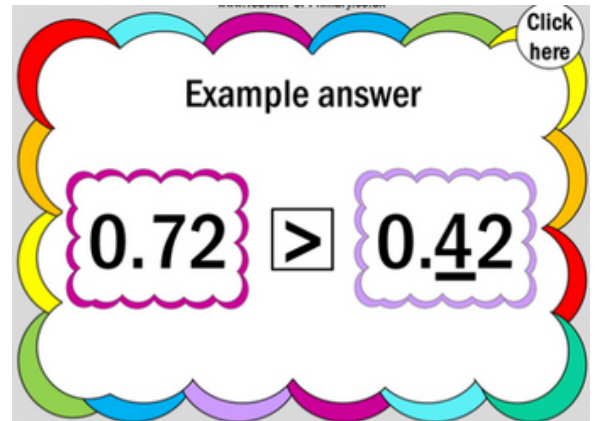
3. Write each decimal in word form.
 - a. $13.5 =$ _____
 - b. $1.35 =$ _____
 - c. $0.135 =$ _____
 - d. $0.013 =$ _____
4. Write each decimal in standard form.
 - a. two and nine tenths = _____
 - b. twenty-nine and six hundredths = _____
 - c. six and twenty-five thousandths = _____
 - d. eight hundred forty-one thousandths = _____
5. Write the standard form of each number written in expanded form.
 - a. $3 + \frac{8}{10} + \frac{2}{1,000} =$ _____
 - b. $30 + 8 + \frac{9}{100} =$ _____
 - c. $70 + 0.08 + 0.002 =$ _____
 - d. $1 + 0.5 + 0.09 =$ _____

3.4 Compare Decimals

Review

$$\begin{array}{r} 9 \boxed{.} 3 \ 7 \ 5 \\ 9 \boxed{.} 3 \ 7 \ 6 \end{array}$$

$9.375 < 9.376$



4. Which of the following are correct? Choose all that apply.
- A. $0.09 > 0.009$
 - B. $1.26 < 1.258$
 - C. $29.99 = 29.990$
 - D. $37.48 > 37.461$
 - E. $5.908 = 5.980$
-
5. Lorinda has \$10.81 in her piggy bank. Thi has \$10.18 in his piggy bank. Compare the amounts.
- \$10.81 \$10.18
6. Lincoln bikes 24.28 miles on Monday and 24.385 miles on Tuesday. Compare the distances.
- 24.28 24.385
7. Jewel and Karl are playing a game. Jewel has 15.42 points. Karl has 15.428 points. Compare the number of points. Who has the greater number of points?
- 15.42 15.428
- _____ has the greater number of points.
8. Zina is 4.25 feet tall. Her cousin Sam is 4.175 feet tall. Compare the heights. Who is taller?
- 4.25 4.175

3.5 Use Place Value to Round Decimals

Review

Round to the nearest whole number.

Tens Units . Tenths Hundredths

2 **4** . 7 7 → 25

Rounding Down

Example: 8.63

↑ tenths ↑ hundredths

8.63 → 8.60

8.6

Rounding Up

Example: 90.352

↑ tenths ↑ hundredths

90.352 → 90.40

90.4

1. Round each decimal to the nearest whole number.

- | | |
|-----------------|-----------------|
| a. 0.948 _____ | b. 34.972 _____ |
| c. 4.013 _____ | d. 48.671 _____ |
| e. 9.05 _____ | f. 56.143 _____ |
| g. 12.489 _____ | h. 66.701 _____ |

2. Round each decimal to the given place value.

- a. Round 1.521 to the nearest tenth. _____
- b. Round 4.037 to the nearest hundredth. _____
- c. Round 19.232 to the nearest tenth. _____
- d. Round 41.691 to the nearest hundredth. _____
- e. Round 83.888 to the nearest tenth. _____

4.1 Estimate Sums and Differences of Decimals

Review

$$18.75 + 9.05$$

$$\begin{array}{c} \downarrow \qquad \downarrow \\ 19 \quad + \quad 9 = 28 \end{array}$$

$$8.41 + 2.77 = ?$$

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

$$14.38 - 4.85 = ?$$

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

$$11.2 + 7.79 = ?$$

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

$$33.12 - 16.8 = ?$$

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

$$14.18 + 21.08 = ?$$

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

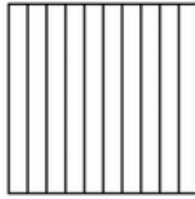
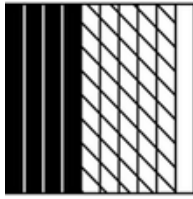
$$78.58 - 49.72 = ?$$

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

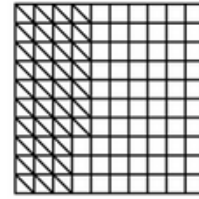
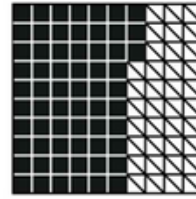
4.2 Represent Addition of Decimals

Review

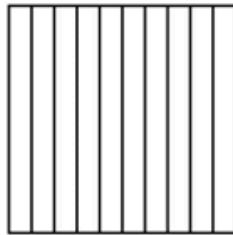
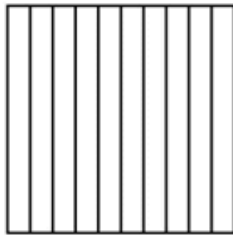
$$0.4 + 0.5 = 0.9$$



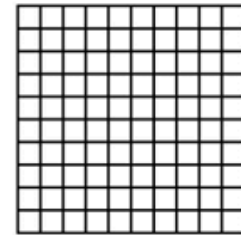
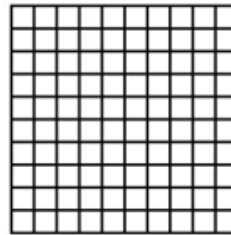
$$0.63 + 0.74 = 1.37$$



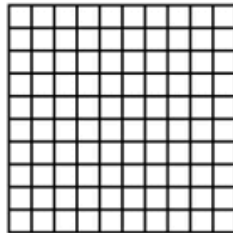
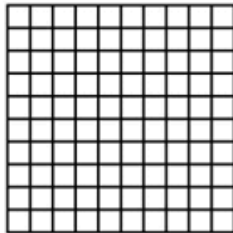
1. $0.1 + 0.3 = \underline{\hspace{2cm}}$



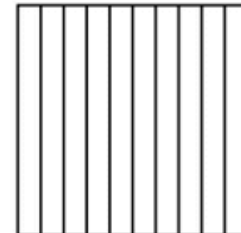
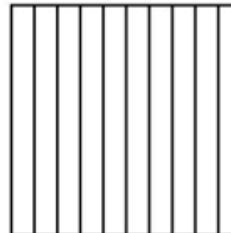
2. $0.11 + 0.07 = \underline{\hspace{2cm}}$



3. $0.24 + 0.87 = \underline{\hspace{2cm}}$

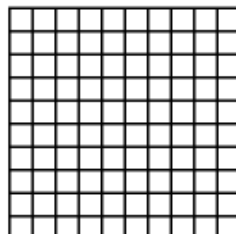
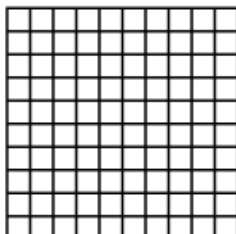


4. $0.5 + 0.9 = \underline{\hspace{2cm}}$

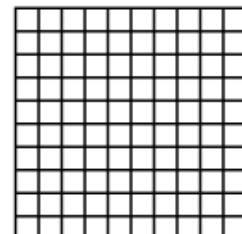
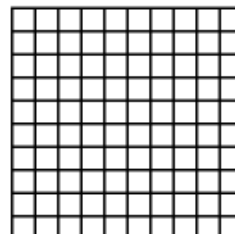


4.3 Represent Addition of Tenths and Hundredths

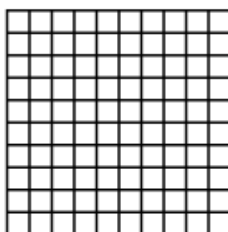
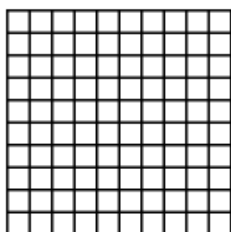
1. $0.7 + 0.09 = \underline{\hspace{2cm}}$



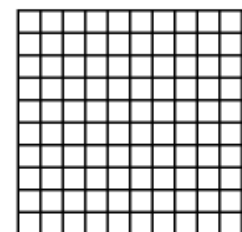
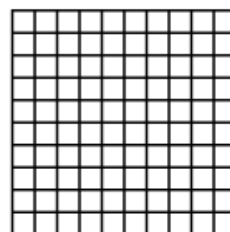
2. $0.32 + 0.5 = \underline{\hspace{2cm}}$



3. $0.2 + 0.48 = \underline{\hspace{2cm}}$



4. $0.35 + 0.9 = \underline{\hspace{2cm}}$



4.4 Use Partial Sums to Add Decimals

Review

Method #1

Method #2 Partial sum

Line up the decimal points...

$$\begin{array}{r} 3.21 \\ + 4.5 \\ \hline 7.71 \end{array}$$

and just drag that decimal point straight down!

Add as usual!

$$16.25 + 12.05 = f$$

$$\begin{array}{l} 10 + 10 = 20 \\ 6 + 2 = 8 \\ 0.2 + 0.0 = 0.2 \\ 0.05 + 0.05 = 0.1 \\ 20 + 8 + 0.2 + 0.1 = 28.3 \end{array}$$

1. $3.16 + 8.4$

2. $17.85 + 0.5$

3. $25.42 + 16.71$

4. $70.94 + 59.01$

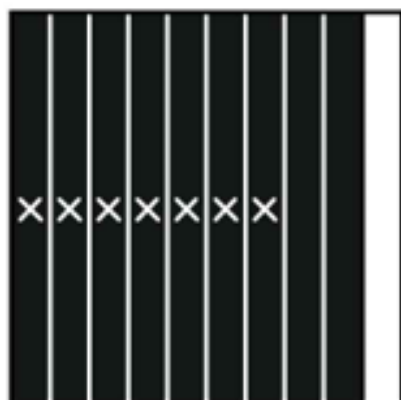
5. A city had 6.95 inches of snow fall on Tuesday and 8.25 inches of snow fall on Wednesday. How much snow fell over the two-day period?

4.5 Represent Subtraction of Decimals

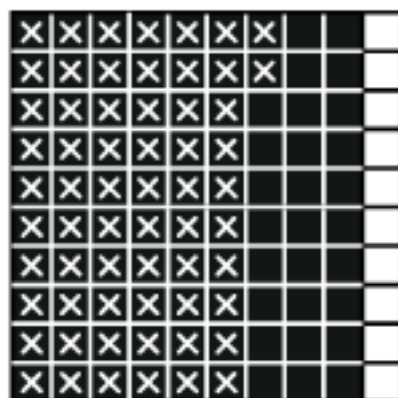
4.6 Represent Subtraction of Tenths and Hundredths

Review

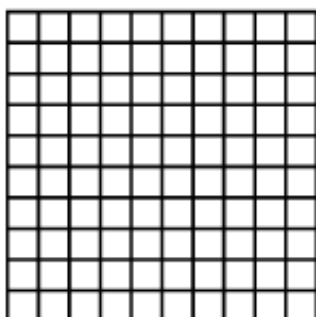
$$0.9 - 0.7 = d.$$



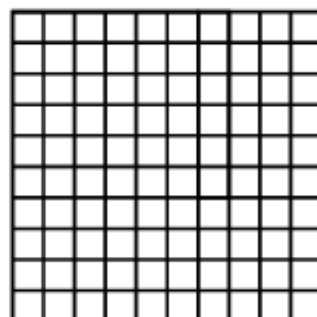
$$0.9 - 0.62 = d.$$



1. $0.5 - 0.04 = \underline{\hspace{2cm}}$

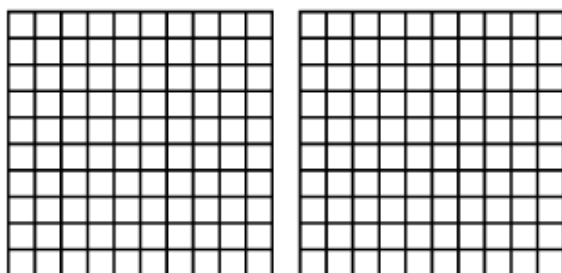


2. $0.66 - 0.3 = \underline{\hspace{2cm}}$

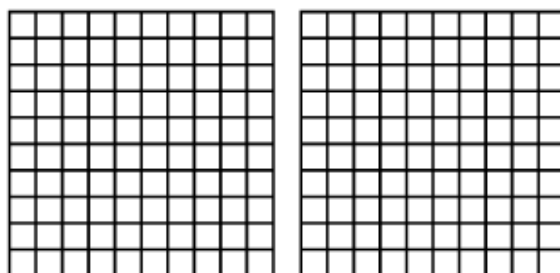


12

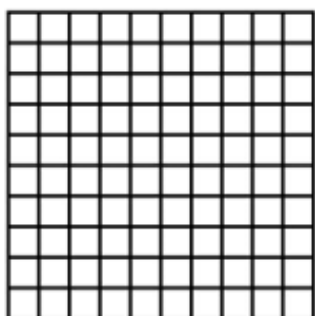
3. $1.17 - 0.6 = \underline{\hspace{2cm}}$



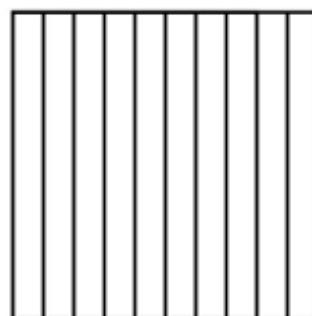
4. $1.9 - 0.58 = \underline{\hspace{2cm}}$



3. $0.31 - 0.24 = \underline{\hspace{2cm}}$



4. $0.8 - 0.4 = \underline{\hspace{2cm}}$



4.7 Strategies to Subtract Decimals

Review



Cool Math



Line up the decimal points...

$$\begin{array}{r} 8.97 \\ - 2.82 \\ \hline 6.15 \end{array}$$

and just drag that decimal point straight down!

Subtract as usual!

Find each difference. Show your work.

1. $4.74 - 1.9 =$ _____

2. $8.8 - 0.67 =$ _____

3. $41.53 - 17.36 =$ _____

4. $55.91 - 16.9 =$ _____

5. $34.92 - 15.75 =$ _____

6. $23.16 - 12.84 =$ _____

5.1 Understand Powers and Exponents

Review $10^5 = 10 \times 10 \times 10 \times 10 \times 10 = 100,000$

Write each power of 10 as a product of 10s.

1. 10^2

2. 10^4

3. 10^6

4. 10^3

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. $10,000 =$ _____

11. $100 =$ _____

12. $10,000,000 =$ _____

5.2 Patterns When Multiplying a Whole Number by Powers of 10

Review

$$16 \times 10^1 = 16 \times 10 = 160$$

$$16 \times 10^2 = 16 \times 100 = 1,600$$

$$16 \times 10^3 = 16 \times 1,000 = 16,000$$

Use patterns to find each product.

1. $25 \times 10 =$ _____

2. $73 \times 1,000 =$ _____

$25 \times 100 =$ _____

$73 \times 10,000 =$ _____

$25 \times 1,000 =$ _____

$73 \times 100,000 =$ _____

3. $44 \times 10^2 =$ _____

4. $81 \times 10^4 =$ _____

$44 \times 10^3 =$ _____

$81 \times 10^5 =$ _____

$44 \times 10^4 =$ _____

$81 \times 10^6 =$ _____

Use patterns to find the value of each expression.

5. $69 \times 10^3 =$ _____

6. $247 \times 10^2 =$ _____

7. $80 \times 10^4 =$ _____

8. $506 \times 10^1 =$ _____

Complete each equation with a power of 10.

9. $23 \times$ _____ $= 2,300$

10. $71 \times$ _____ $=$
7,100,000

11. $9 \times$ _____ $= 9,000$

12. $18 \times$ _____ $=$
18,000,000

5.3 Estimate Products of Multi-Digit Factors

Review

$$\begin{array}{r} 329 \times 11 = c \\ \downarrow \quad \downarrow \\ 330 \times 10 = 3,300 \end{array}$$

329 rounds to 330.

11 rounds to 10.

Estimate each product.

1. $412 \times 17 =$ _____ $\times$ _____ $=$ _____

2. $281 \times 32 =$ _____ $\times$ _____ $=$ _____

3. $81 \times 687 =$ _____ $\times$ _____ $=$ _____

4. $57 \times 509 =$ _____ $\times$ **13** _____ $=$ _____

5. $749 \times 64 =$ _____ $\times$ _____ $=$ _____

5.5 Use Partial Products to Multiply Multi-Digit Factors

Review

$$\begin{array}{r} 128 \\ \times 16 \\ \hline 10 \times 100 = 1,000 \\ 10 \times 20 = 200 \\ 10 \times 8 = 80 \\ 6 \times 100 = 600 \\ 6 \times 20 = 120 \\ 6 \times 8 = + 48 \\ \hline 2,048 \end{array}$$

Use partial products to solve.

1. $\begin{array}{r} 37 \\ \times 56 \\ \hline \end{array}$

2. $\begin{array}{r} 416 \\ \times 38 \\ \hline \end{array}$

3. $\begin{array}{r} 472 \\ \times 83 \\ \hline \end{array}$

5.4- Use Area Models to Multiply Multi-Digit Factors

Review To find the area, solve 56×248 . Use an area model.

	200	+	40	+	8
50	10,000		2,000		400
+					
6	1,200		240		48

Add the partial products to find the product.

$$10,000 + 2,000 + 400 + 1,200 + 240 + 48 = 13,888$$

Use area models and partial products to solve.

2. $74 \times 49 =$ _____

3. $18 \times 221 =$ _____

4. $65 \times 734 =$ _____

5.4- Use Area Models to Multiply Multi-Digit Factors

Review To find the area, solve 56×248 . Use an area model.

	200	+	40	+	8
50	10,000		2,000		400
+					
6	1,200		240		48

Add the partial products to find the product.

$$10,000 + 2,000 + 400 + 1,200 + 240 + 48 = 13,888$$

Use area models and partial products to solve.

2. $74 \times 49 =$ _____

3. $18 \times 221 =$ _____

4. $65 \times 734 =$ _____

Review

$$\begin{array}{r} \text{+1+2+2} \\ 2,234 \\ \times \quad 6 \\ \hline 13,404 \end{array}$$

1. 478
 $\times 7$

2. 791
 $\times 9$

3. 384
 $\times 5$

4. 1,477
 $\times 4$

5. 3,519
 $\times 6$

6. 7,568
 $\times 8$

5.7 Multiply Multi-Digit Factors Fluently

Review

$$\begin{array}{r} 2,186 \\ \times 42 \\ \hline 4,372 \\ + 87,440 \\ \hline 91,812 \end{array}$$

Multiply 2,186 by 2.
Multiply 2,186 by 40.
Add the partial products.

1. 251
 $\times 27$

2. 974
 $\times 34$

3. 4,109
 $\times 19$

6.1 Patterns When Multiplying Decimals by Powers of 10

Review

$$6.3 \times 10^3 = 6.3 \times 10 \times 10 \times 10 = 6,300$$

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

1. 1.8×10^3

2. 6.4×10^2

3. 3.7×10^4

4. 5.9×10^3

5. The distance between two cities is about 1.4×10^3 miles. About how many miles apart are the two cities?
-

Use patterns to help you find the value of each expression.

6. $5.2 \times 10^2 =$ _____

7. $9.7 \times 10^1 =$ _____

$5.2 \times 10^3 =$ _____

$9.7 \times 10^2 =$ _____

$5.2 \times 10^4 =$ _____

$9.7 \times 10^3 =$ _____

8. $2.6 \times 10^3 =$ _____

9. $6.1 \times 10^2 =$ _____

$2.6 \times 10^4 =$ _____

$6.1 \times 10^3 =$ _____

$2.6 \times 10^5 =$ _____

$6.1 \times 10^4 =$ _____

6.2 Estimate Products of Decimals

Review

$$2.32 \times 7.8 =$$

► **One Way** Estimate by rounding.
7.8 rounds to 8. 2.32 rounds to 2.
 $2 \times 8 = 16$

Estimate each product by rounding. Show your work.

1. 4.18×6.86

2. 2.73×5.17

3. 3.6×9.8

4. 4.55×7.2

Estimate each product by finding a range. Show your work.

5. 2.63×7.2

6. 5.56×1.88

7. 6.7×9.8

8. 4.1×4.58

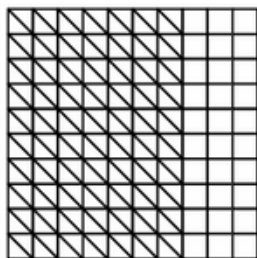
6.3 Represent Multiplication of Decimals

Review

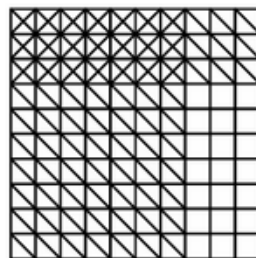
Write an equation: $0.3 \times 0.7 = w$

Use a decimal grid to solve.

Shade 7 tenths of the grid.

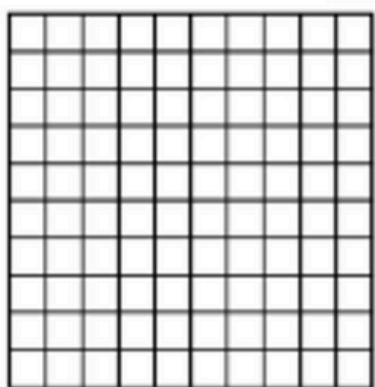


Shade 3 tenths of the 7 tenths.

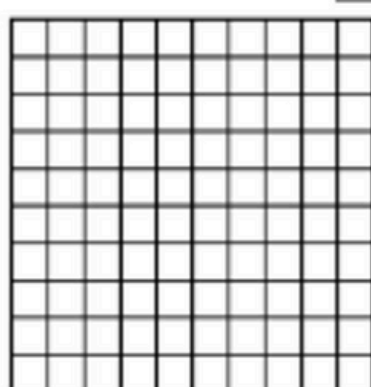


There are 21 hundredths of the whole shaded.

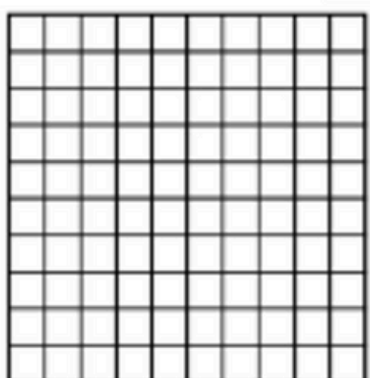
$$0.04 \times 8 =$$



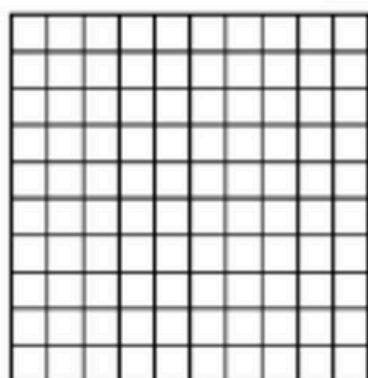
$$0.07 \times 3 =$$



$$0.06 \times 5 =$$

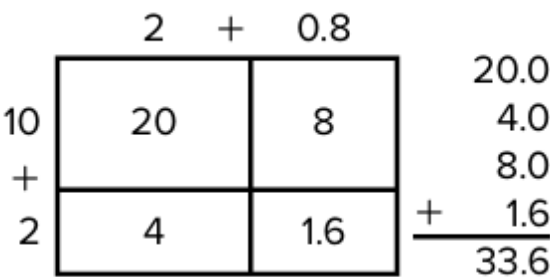


$$0.4 \times 2 =$$



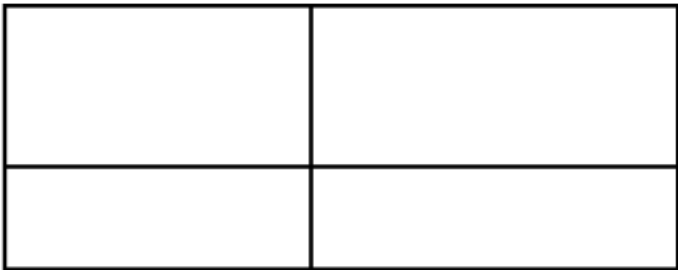
6.4 Use an Area Model to Multiply Decimals

Review **$12 \times 2.8 =$**

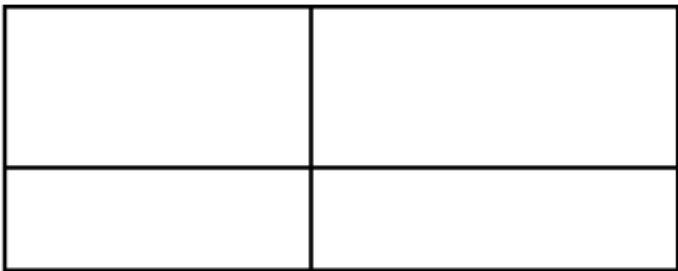


Use area model to solve

$24 \times 2.3 =$ _____



$6.7 \times 3.2 =$ _____



6.5 Generalizations about Multiplying Decimals

Review

Solve each of the equations.

$$35 \times 19 = m$$

$$35 \times 1.9 = n$$

$$35 \times 0.19 = p$$

You know $35 \times 19 = 665$. You can use place value to help you find the solutions to the other equations.

1.9 is $\frac{1}{10}$ of 19.

$$35 \times 19 = 665$$

$$35 \times 1.9 = 66.5$$

66.5 is $\frac{1}{10}$ of 665.

0.19 is $\frac{1}{100}$ of 19.

$$35 \times 19 = 665$$

$$35 \times 0.19 = 6.65$$

6.65 is $\frac{1}{100}$ of 665.

What is the product? Use patterns to solve.

4. $45 \times 17 = 765$

$$45 \times 1.7 = \underline{\hspace{2cm}}$$

$$45 \times 0.17 = \underline{\hspace{2cm}}$$

5. $32 \times 14 = \underline{\hspace{2cm}}$

$$32 \times 1.4 = 44.8$$

$$3.2 \times 1.4 = \underline{\hspace{2cm}}$$

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

$$16 \times 8.9 = \underline{\hspace{2cm}}$$

$$16 \times 0.89 = \underline{\hspace{2cm}}$$

7. $61 \times 22 = \underline{\hspace{2cm}}$

$$6.1 \times 22 = 134.2$$

$$6.1 \times 2.2 = \underline{\hspace{2cm}}$$

What is the product?

4. $65 \times 23 = 1,495$

$$65 \times 2.3 = \underline{\hspace{2cm}}$$

$$65 \times 0.23 = \underline{\hspace{2cm}}$$

5. $27 \times 29 = \underline{\hspace{2cm}}$

$$27 \times 2.9 = 78.3$$

$$2.7 \times 2.9 = \underline{\hspace{2cm}}$$

6. $84 \times 37 = 3,108$

$$84 \times 3.7 = \underline{\hspace{2cm}}$$

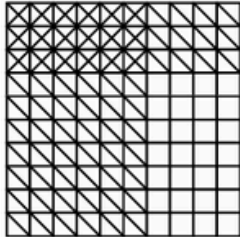
$$84 \times 0.37 = \underline{\hspace{2cm}}$$

6.6 Explain Strategies to Multiply Decimals

Review

You can use different methods to multiply decimals.

Use a decimal grid to solve
 $0.6 \times 0.3 = p$.



So $0.6 \times 0.3 = 0.18$.

Use partial products to solve
 $0.7 \times 3.4 = n$.

Partial Products:

$$0.7 \times 3 = 2.1 \text{ and}$$

$$0.7 \times 0.4 = 0.28$$

Total Product:

$$2.1 + 0.28 = 2.38$$

So $0.7 \times 3.4 = 2.38$

Use an area model and partial products to solve 4.5×6.3 .

	6	+	0.3	
4	$4 \times 6 = 24$		$4 \times 0.3 = 1.2$	24
+				1.2
0.5	$0.5 \times 6 = 3$		$0.5 \times 0.3 = 0.15$	3
				+
				0.15
				28.35

So $4.5 \times 6.3 = 28.35$.

What is the product?

1. 0.9×0.4

2. 6.7×2.3

Solve each problem. Explain the strategy used to solve.

3. Ursula walked 0.8 mile yesterday. She walked three times as far today. How far did Ursula walk today?

4. Bill jogged 4.8 miles on Saturday. On Monday, he jogged 0.6 of that distance. How many miles did Bill jog on Monday?