

Shelby County Schools
Extended Learning Day
Packet



4th Grade

Prerequisite: What does it mean to multiply numbers?



Study the example shows ways to describe multiplication. Then solve problems 1–8.

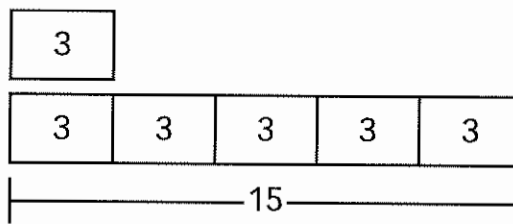
Example

Use words and models to show $5 \times 3 = 15$.

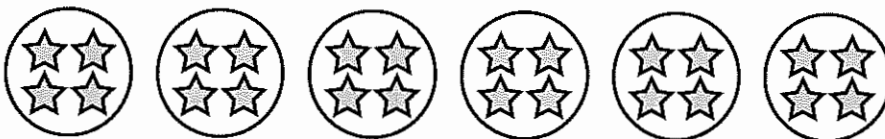
5 groups of 3 is 15.



15 is 5 times as many as 3.



1 Complete the sentences to describe the multiplication that the picture shows.



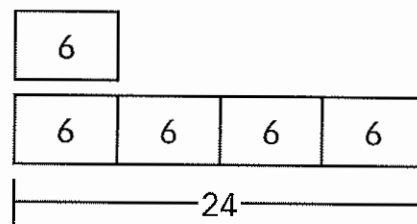
Words: _____ groups of _____ is _____.

Equation: _____ \times _____ = _____

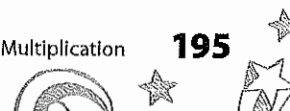
2 Use the bar model at the right to complete the sentences.

Words: _____ is _____ times as many as _____.

Equation: _____ \times _____ = _____

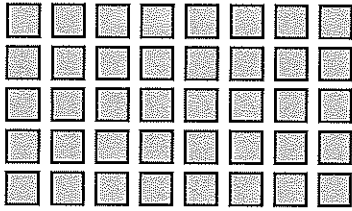


3 How is 6×4 related to 4×6 ? _____



Solve.

- 4** Complete the sentences to describe the multiplication that the array shows.



_____ rows of _____ is _____.

_____ \times _____ = _____

- 5** Draw and label a bar model to show 5×9 .

- 6** Nick read 7 books last month. He read twice as many books this month. Draw a bar model that represents the number of books Nick read this month.

- 7** Look at problem 6. Write the multiplication equation that the bar model describes.

- 8** Write a word problem that could be modeled by the equation $3 \times 6 = 18$.

Show Multiplying Fractions

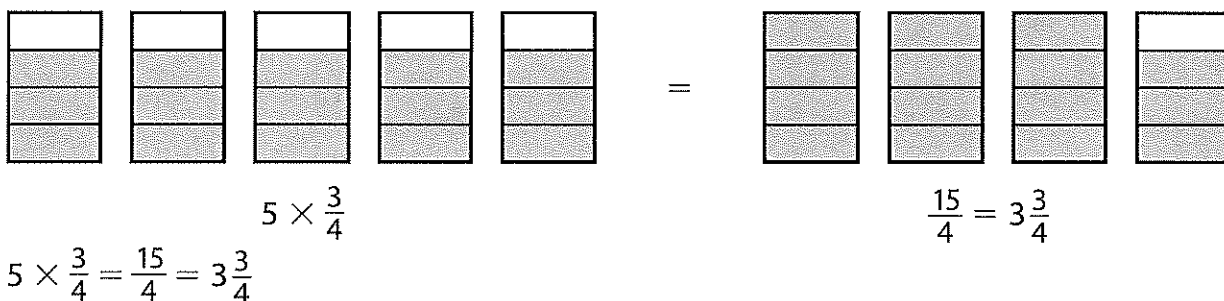
Study how the example shows how to multiply fractions. Then solve problems 1–9.

Example

Find $5 \times \frac{3}{4}$.

You can use repeated addition. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{15}{4}$ $\frac{15}{4} = 3\frac{3}{4}$

You can draw a model.



1 Find $6 \times \frac{1}{4}$ using repeated addition.

_____ + _____ + _____ + _____ + _____ + _____ = _____

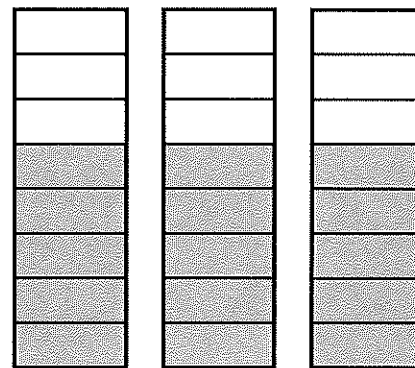
2 Draw a model to show $6 \times \frac{1}{4}$.

3 Use the digits 2 and 3 to complete two different multiplication problems with the same product as $6 \times \frac{1}{4}$.

\times $\frac{\text{input}}{4}$ \times $\frac{\text{input}}{4}$

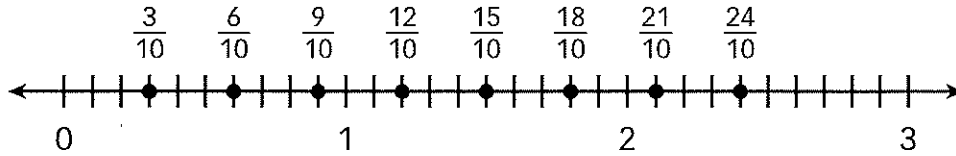
4 Look at the model. Tell whether each expression shows the product of $3 \times \frac{5}{8}$.

- a. $5 \times \frac{3}{8}$ Yes No
- b. $\frac{5}{8} + \frac{5}{8} + \frac{5}{8}$ Yes No
- c. $\frac{5}{8} \times \frac{5}{8} \times \frac{5}{8}$ Yes No
- d. $15 \times \frac{1}{8}$ Yes No



Solve.

- 5 The number line below shows _____ \times $\frac{\square}{\square}$.



- 6 Label the number line below and use it to show $3 \times \frac{3}{4}$.



- 7 Draw a model to show $3 \times \frac{4}{5}$.

- 8 Look at the model you drew in problem 7.

Use the digits 2, 3, 4, 5, and 6 to write two different multiplication problems with the same product as $3 \times \frac{4}{5}$.

$$\square \times \frac{\square}{\square} \quad \square \times \frac{\square}{\square}$$

- 9 Lisa says that $3 \times \frac{1}{6}$ and $\frac{1}{6} \times \frac{1}{6} \times \frac{1}{6}$ have the same product. Is Lisa's reasoning correct? Explain.

Reason and Write

Study the example. Underline two parts that you think make it a particularly good answer and a helpful example.

Example

Describe how you can use the same methods to find the product 4×2 and the product $4 \times \frac{2}{3}$.

Show your work. Use models, words, and numbers to explain your answer.

I can think of 4×2 as 4 groups of 2.

$4 \times 2 = 8$. 8 is 4 times as many as 2.

I can think of $4 \times \frac{2}{3}$ as 4 groups of 2 thirds. $4 \times \frac{2}{3} = \frac{8}{3}$.
 $\frac{8}{3}$ is 4 times as many as $\frac{2}{3}$.

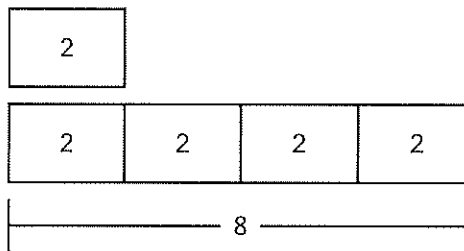
I can find both products using repeated addition.

$$2 + 2 + 2 + 2 = 8$$

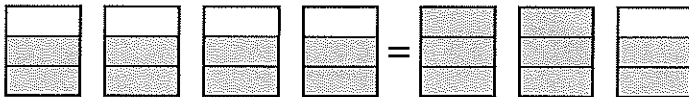
$$\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3}$$

I can use a model to show

$$4 \times 2 = 8.$$

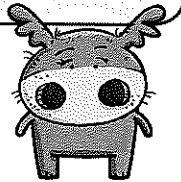


I can use a model to show $4 \times \frac{2}{3} = \frac{8}{3}$.



Where does the example...

- use words to explain?
- use numbers to explain?
- use models to show how the products are alike?



Solve the problem. Use what you learned from the example.

Describe how you can use the same methods to find the product 2×3 and the product $2 \times \frac{3}{4}$.

Show your work. Use words, models, and numbers to explain your answer.

Did you...

- use words to explain?
- use numbers to explain?
- use models to show how the products are alike?



Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 100,000.

Form A

$$\begin{array}{r} \mathbf{1} \quad 47,863 \\ - \quad 251 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 19,038 \\ - 11,018 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 28,682 \\ - \quad 3,270 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 76,429 \\ - 20,306 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 81,235 \\ - 20,017 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 36,725 \\ - \quad 1,582 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 94,130 \\ - 20,125 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 64,728 \\ - \quad 3,914 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 28,236 \\ - \quad 8,915 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 58,623 \\ - 26,374 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 72,160 \\ - \quad 2,087 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 38,412 \\ - 25,651 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 34,210 \\ - \quad 8,105 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 10,714 \\ - \quad 9,456 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 63,258 \\ - 21,399 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 40,805 \\ - 15,912 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 53,126 \\ - 45,928 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 80,052 \\ - 71,963 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 24,350 \\ - \quad 9,582 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 100,000 \\ - \quad 86,932 \\ \hline \end{array}$$

Multi-Digit Subtraction—Skills Practice

Name: _____

Subtract within 100,000.

Form B

$$\begin{array}{r} \mathbf{1} \quad 53,641 \\ - \quad 1,320 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 85,472 \\ - \quad 82,302 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 93,245 \\ - \quad 32,025 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 43,619 \\ - \quad 20,301 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 30,582 \\ - \quad \quad 156 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 12,987 \\ - \quad 2,793 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 82,056 \\ - \quad 50,330 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 73,542 \\ - \quad 25,402 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 27,810 \\ - \quad 15,675 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 94,321 \\ - \quad 4,255 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 65,852 \\ - \quad 23,890 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 18,376 \\ - \quad 8,953 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 15,008 \\ - \quad 2,409 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 20,530 \\ - \quad 19,790 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 99,325 \\ - \quad 38,547 \\ \hline \end{array}$$

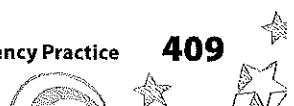
$$\begin{array}{r} \mathbf{16} \quad 50,364 \\ - \quad 37,148 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 36,825 \\ - \quad 28,967 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 38,972 \\ - \quad 19,999 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 45,000 \\ - \quad 37,955 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 100,000 \\ - \quad 23,871 \\ \hline \end{array}$$



3rd grade/Math Educational Websites and Web Resources

Title of Resource	Web Address	Description	Student Access
Khan Academy	https://www.khanacademy.org	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
Zearn.org	https://Zearn.org	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
LearnZillion	https://Learnzillion.org	Students will be able to get additional practice with skills in various subjects and test prep.	Students will need to sign up for a free account if they do not already have an account.
AAAmath.org	AAAmath.org	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
ixl.com	ixl.com	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
Adaptedmind.com	Adaptedmind.com	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.
Hoodamath.com	Hoodamath.com	Students will be able to get additional practice with skills in various subjects and test prep.	A student account is not needed to access this website.