

**Homework**

Solve. Write a multiplication equation for each problem.

Miguel swam 6 lengths of the pool. Po Lan swam 3 times as far as Miguel. Lionel swam  $\frac{1}{3}$  as far as Miguel.

1. How many lengths did Po Lan swim? \_\_\_\_\_

Write the equation. \_\_\_\_\_

2. How many lengths did Lionel swim? \_\_\_\_\_

Write the equation. \_\_\_\_\_

Chris cut a length of rope that was 12 feet long. Dayna cut a rope 4 times as long as Chris's rope. Benita cut a rope  $\frac{1}{4}$  as long as Chris's rope.

3. How long is Dayna's rope? \_\_\_\_\_

Write the equation. \_\_\_\_\_

4. How long is Benita's rope? \_\_\_\_\_

Write the equation. \_\_\_\_\_

Write two statements for each pair of treats. Use the word *times*.

5. Compare cookies and drinks.

\_\_\_\_\_

\_\_\_\_\_

6. Compare drinks and pizzas.



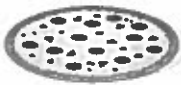
\_\_\_\_\_

\_\_\_\_\_

7. Compare cookies and pizzas.

\_\_\_\_\_

\_\_\_\_\_

Treat	Number
	24
	8
	2

Solve.

8.  $\frac{1}{3} \cdot 18 =$  \_\_\_\_\_

9.  $\frac{1}{4}$  of 12 = \_\_\_\_\_

10.  $\frac{1}{8} \cdot 32 =$  \_\_\_\_\_

11.  $\frac{1}{9}$  of 27 = \_\_\_\_\_

12.  $\frac{1}{8} \cdot 56 =$  \_\_\_\_\_

13.  $\frac{1}{3}$  of 15 = \_\_\_\_\_

**Homework**

Multiply.

1.  $\frac{2}{3} \cdot 15 =$  \_\_\_\_\_

2.  $\frac{3}{4} \cdot 8 =$  \_\_\_\_\_

3.  $\frac{7}{8} \cdot 32 =$  \_\_\_\_\_

4.  $\frac{2}{9} \cdot 27 =$  \_\_\_\_\_

5.  $\frac{3}{8} \cdot 56 =$  \_\_\_\_\_

6.  $\frac{3}{4} \cdot 16 =$  \_\_\_\_\_

7.  $\frac{2}{3} \cdot 21 =$  \_\_\_\_\_

8.  $\frac{4}{5} \cdot 35 =$  \_\_\_\_\_

9.  $\frac{5}{7} \cdot 28 =$  \_\_\_\_\_

10.  $\frac{4}{9} \cdot 45 =$  \_\_\_\_\_

11.  $\frac{5}{12} \cdot 24 =$  \_\_\_\_\_

12.  $\frac{9}{10} \cdot 70 =$  \_\_\_\_\_

13.  $\frac{7}{9} \cdot 18 =$  \_\_\_\_\_

14.  $\frac{5}{8} \cdot 80 =$  \_\_\_\_\_

15.  $\frac{4}{15} \cdot 45 =$  \_\_\_\_\_

Solve.

*Show your work.*

16. Rebecca has 21 math problems to solve. She has solved  $\frac{2}{7}$  of them. How many problems has she solved?

\_\_\_\_\_

17. Tessa shot 36 free throws. She made 27 of them. What fraction of her free throws did Tessa make?

\_\_\_\_\_

18. A carousel has 56 horses.  $\frac{3}{8}$  of them are white. How many horses are not white?

\_\_\_\_\_

19. Nathan works at a hardware store. Today he sold 48 tools.  $\frac{5}{6}$  of the tools he sold were hammers. How many hammers did Nathan sell today?

\_\_\_\_\_

# Homework

The campers in each cabin at Bear Claw Camp held a contest to see who could walk the farthest in one day. Use the sign to answer the questions. Write your answers as fractions.



- The campers in Cabin A walked  $\frac{1}{4}$  of the way to Otter Ridge. How many miles did they walk?  
\_\_\_\_\_
- The campers in Cabin B walked  $\frac{2}{3}$  of the way to Silver Stream. How many miles did they walk?  
\_\_\_\_\_
- The campers in Cabin C walked  $\frac{3}{5}$  of the way to Fossil Cave. How many miles did they walk?  
\_\_\_\_\_
- The campers in Cabin D walked  $\frac{1}{6}$  of the way to Mammoth Mountain. How many miles did they walk?  
\_\_\_\_\_
- Which group of campers walked the farthest that day?  
\_\_\_\_\_

- Show  $\frac{2}{3}$  of 4 on the number line.



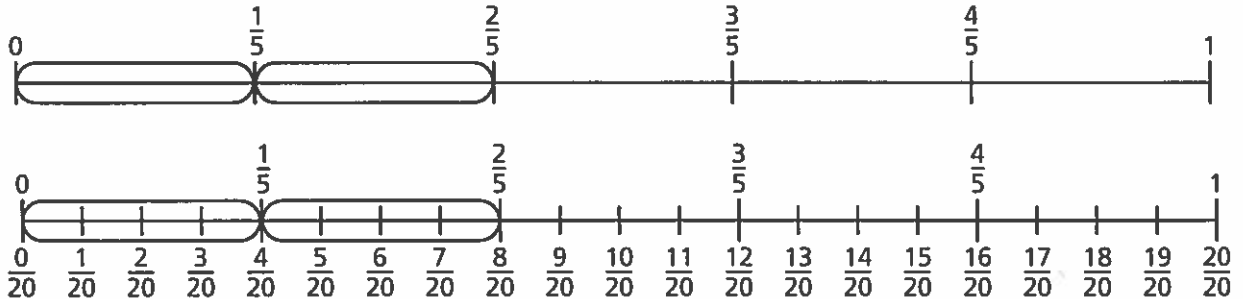
- Write  $\frac{2}{3}$  of 4 as a fraction. \_\_\_\_\_
- Write  $\frac{2}{3}$  of 4 as a mixed number. \_\_\_\_\_

**Multiply. Write your answers as fractions.**

- |                                    |                                     |                                    |
|------------------------------------|-------------------------------------|------------------------------------|
| 9. $\frac{2}{7} \cdot 4 =$ _____   | 10. $\frac{2}{3} \cdot 8 =$ _____   | 11. $\frac{5}{6} \cdot 4 =$ _____  |
| 12. $\frac{2}{9} \cdot 20 =$ _____ | 13. $\frac{7}{9} \cdot 2 =$ _____   | 14. $\frac{3}{8} \cdot 5 =$ _____  |
| 15. $\frac{2}{3} \cdot 13 =$ _____ | 16. $\frac{5}{12} \cdot 18 =$ _____ | 17. $\frac{5}{9} \cdot 12 =$ _____ |

# Homework

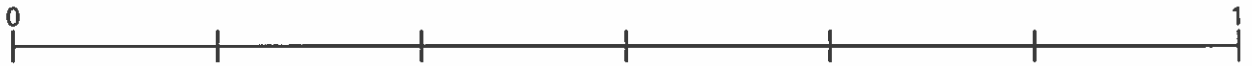
Tanith is using a number line to find  $\frac{3}{4} \cdot \frac{2}{5}$ . This is her work so far:



1. Explain Tanith's work so far to someone at home.
2. Finish Tanith's work by circling  $\frac{3}{4}$  of each circled fifth. How many 20ths did you circle altogether? \_\_\_\_\_

What is  $\frac{3}{4} \cdot \frac{2}{5}$ ? \_\_\_\_\_

3. Use the number line to find  $\frac{2}{3} \cdot \frac{5}{6}$ .  
Label all the parts above and below. \_\_\_\_\_



Solve.

*Show your work.*

4. Four friends at a party popped  $\frac{3}{4}$  of a bag of popcorn. They ate half of what was popped. What fraction of the popcorn in the bag did they eat? \_\_\_\_\_
5. Ashley brought  $\frac{7}{8}$  gallon of lemonade to the party. Her friends drank  $\frac{2}{3}$  of it. How many gallons of lemonade did they drink? \_\_\_\_\_

**Multiply. You do not need to simplify.**

6.  $\frac{2}{7} \cdot \frac{1}{3} =$  \_\_\_\_\_

7.  $\frac{4}{9} \cdot \frac{2}{9} =$  \_\_\_\_\_

8.  $\frac{1}{8} \cdot \frac{5}{6} =$  \_\_\_\_\_

9.  $\frac{2}{7} \cdot 12 =$  \_\_\_\_\_

10.  $\frac{4}{5} \cdot \frac{2}{3} =$  \_\_\_\_\_

11.  $\frac{1}{7} \cdot \frac{3}{5} =$  \_\_\_\_\_

12.  $\frac{9}{10} \cdot \frac{1}{2} =$  \_\_\_\_\_

13.  $\frac{5}{12} \cdot 3 =$  \_\_\_\_\_

14.  $\frac{5}{6} \cdot \frac{1}{6} =$  \_\_\_\_\_

**Homework**

Multiply. Simplify first if you can.

1.  $\frac{2}{5} \cdot \frac{6}{7} =$  \_\_\_\_\_

2.  $\frac{4}{9} \cdot \frac{1}{8} =$  \_\_\_\_\_

3.  $\frac{5}{24} \cdot \frac{8}{15} =$  \_\_\_\_\_

4.  $\frac{2}{17} \cdot \frac{8}{1} =$  \_\_\_\_\_

5.  $\frac{3}{4} \cdot \frac{12}{25} =$  \_\_\_\_\_

6.  $\frac{5}{7} \cdot \frac{3}{8} =$  \_\_\_\_\_

7.  $\frac{3}{10} \cdot \frac{2}{3} =$  \_\_\_\_\_

8.  $\frac{5}{16} \cdot \frac{2}{25} =$  \_\_\_\_\_

9.  $\frac{4}{35} \cdot \frac{7}{12} =$  \_\_\_\_\_

10.  $\frac{5}{6} \cdot \frac{7}{1} =$  \_\_\_\_\_

11.  $\frac{7}{9} \cdot \frac{6}{49} =$  \_\_\_\_\_

12.  $\frac{7}{8} \cdot \frac{2}{3} =$  \_\_\_\_\_

13. Which fraction is not equivalent to the others?

$$\frac{3}{15} \quad \frac{2}{10} \quad \frac{1}{5} \quad \frac{9}{45} \quad \frac{10}{50} \quad \frac{6}{40} \quad \frac{7}{35} \quad \frac{100}{500}$$

Solve.

*Show your work*

14. In the town zoo,  $\frac{3}{28}$  of the animals are birds. Of the birds,  $\frac{4}{15}$  are birds of prey. What fraction of the animals at the zoo are birds of prey?

\_\_\_\_\_

15. Tuesday at the zoo,  $\frac{5}{12}$  of the visitors were adults. Of these adults,  $\frac{3}{10}$  were men. What fraction of the people who visited the zoo on Tuesday were men?

\_\_\_\_\_

16. On Tuesday,  $\frac{14}{25}$  of the souvenirs purchased at the zoo gift shop were stuffed animals. Of the stuffed animals purchased,  $\frac{10}{21}$  were bears. What fraction of the souvenirs purchased at the zoo gift shop on Tuesday were stuffed bears?

\_\_\_\_\_

**Homework**

Find each product by first rewriting each mixed number as a fraction.

1.  $\frac{3}{7} \cdot 2\frac{1}{2} =$  \_\_\_\_\_

2.  $1\frac{7}{10} \cdot 5 =$  \_\_\_\_\_

3.  $2\frac{2}{3} \cdot 4\frac{1}{5} =$  \_\_\_\_\_

4.  $5\frac{1}{3} \cdot \frac{3}{8} =$  \_\_\_\_\_

5.  $\frac{5}{9} \cdot 1\frac{2}{5} =$  \_\_\_\_\_

6.  $12 \cdot 2\frac{3}{4} =$  \_\_\_\_\_

7.  $3\frac{1}{2} \cdot 3\frac{1}{2} =$  \_\_\_\_\_

8.  $\frac{1}{9} \cdot 3\frac{9}{10} =$  \_\_\_\_\_

Solve.

*Show your work.*

9. The bottom of Zeyda's jewelry box is a rectangle with length  $5\frac{3}{8}$  inches and width  $3\frac{1}{4}$  inches. What is the area of the bottom of the jewelry box?

\_\_\_\_\_

10. The Patel family went apple picking. The number of red apples they picked was  $2\frac{2}{9}$  times the number of green apples they picked. If they picked 45 green apples, how many red apples did they pick?

\_\_\_\_\_

11. The art museum is  $8\frac{1}{2}$  miles from Alison's house. Alison has ridden her bike  $\frac{2}{3}$  of the way there so far. How far has she gone?

\_\_\_\_\_

**Remembering**

Subtract.

1.  $\frac{3}{4} - \frac{1}{6}$

2.  $\frac{2}{9} - \frac{1}{10}$

3.  $\frac{7}{8} - \frac{1}{4}$

4.  $\frac{6}{7} - \frac{1}{3}$

5.  $\frac{4}{5} - \frac{2}{3}$

6.  $\frac{1}{2} - \frac{1}{8}$

Estimate each sum or difference.

7.  $6.759 + 2.099$  \_\_\_\_\_

8.  $\$44.25 - \$21.76$  \_\_\_\_\_

9.  $14.6 + 2.4$  \_\_\_\_\_

Find each product by first rewriting each mixed number as a fraction.

10.  $\frac{5}{8} \cdot 3\frac{1}{3} =$  \_\_\_\_\_

11.  $4\frac{3}{5} \cdot 5 =$  \_\_\_\_\_

12.  $1\frac{2}{5} \cdot 3\frac{4}{9} =$  \_\_\_\_\_

13.  $6\frac{1}{5} \cdot \frac{5}{8} =$  \_\_\_\_\_

14. **Stretch Your Thinking** Give an example that shows how to use the Distributive Property to multiply a number by a sum. All of the numbers you use should be mixed numbers or fractions.

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**Homework**

Predict whether the product will be greater than, less than, or equal to the second factor. Then compute the product.

1.  $\frac{4}{5} \cdot 6 = x$

Predict:  $x \bigcirc 6$ Compute:  $x = \underline{\hspace{2cm}}$ 

2.  $1\frac{1}{9} \cdot 6 = x$

Predict:  $x \bigcirc 6$ Compute:  $x = \underline{\hspace{2cm}}$ 

3.  $\frac{10}{10} \cdot 6 = x$

Predict:  $x \bigcirc 6$ Compute:  $x = \underline{\hspace{2cm}}$ 

4.  $\frac{2}{2} \cdot \frac{5}{6} = x$

Predict:  $x \bigcirc \frac{5}{6}$ Compute:  $x = \underline{\hspace{2cm}}$ 

5.  $\frac{5}{6} \cdot \frac{5}{6} = x$

Predict:  $x \bigcirc \frac{5}{6}$ Compute:  $x = \underline{\hspace{2cm}}$ 

6.  $1\frac{1}{3} \cdot \frac{5}{6} = x$

Predict:  $x \bigcirc \frac{5}{6}$ Compute:  $x = \underline{\hspace{2cm}}$ 

Solve.

*Show your work.*

7. James is  $1\frac{3}{7}$  times as tall as his brother. His brother is  $3\frac{1}{2}$  feet tall.

Is James's height more or less than  $3\frac{1}{2}$  feet?

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How tall is James?

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8. South Middle School has 750 students. North Middle School has  $\frac{13}{15}$  times as many students as South.

Does North Middle School have more or fewer than 750 students?

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How many students attend North Middle School?

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## Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 2\frac{3}{4} \\ - 1\frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 4\frac{2}{3} \\ + 1\frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 10\frac{1}{2} \\ - 3\frac{4}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 7 \\ - 2\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 3\frac{2}{5} \\ + 4\frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 8\frac{1}{3} \\ + 1\frac{3}{4} \\ \hline \end{array}$$

Complete each fraction box.

7.

$\frac{2}{5}$ and $\frac{2}{7}$	
>	
+	
-	
·	

8.

$\frac{5}{6}$ and $\frac{6}{7}$	
>	
+	
-	
·	

Predict whether the product will be greater than, less than, or equal to the second factor. Then compute the product.

9.  $\frac{2}{3} \cdot 5 = x$

Predict:  $x \bigcirc 5$

Compute:  $x = \underline{\hspace{2cm}}$

10.  $\frac{3}{3} \cdot 5 = x$

Predict:  $x \bigcirc 5$

Compute:  $x = \underline{\hspace{2cm}}$

11.  $1\frac{1}{6} \cdot 5 = x$

Predict:  $x \bigcirc 5$

Compute:  $x = \underline{\hspace{2cm}}$

12. **Stretch Your Thinking** Draw a diagram to show how many twelfths there are in 3. Describe a situation in which you would need to know how many twelfths there are in 3.

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**Homework**

Solve.

1.  $5 \cdot \frac{1}{3} =$  \_\_\_\_\_

2.  $5 \div \frac{1}{3} =$  \_\_\_\_\_

3.  $\frac{1}{8} \div 2 =$  \_\_\_\_\_

4.  $27 \div 10 =$  \_\_\_\_\_

5.  $5 \div \frac{1}{100} =$  \_\_\_\_\_

6.  $12 \cdot \frac{1}{9} =$  \_\_\_\_\_

7.  $\frac{3}{5} \cdot \frac{10}{27} =$  \_\_\_\_\_

8.  $16 \div \frac{1}{4} =$  \_\_\_\_\_

9.  $\frac{1}{5} \div 10 =$  \_\_\_\_\_

10.  $10 \div \frac{1}{5} =$  \_\_\_\_\_

11.  $\frac{1}{8} \cdot 14 =$  \_\_\_\_\_

12.  $18 \div 20 =$  \_\_\_\_\_

Tell whether you need to multiply or divide. Then solve.

*Show your work.*

13. A dime weighs about  $\frac{1}{12}$  ounce. Jody has 1 pound (16 ounces) of dimes. About many dimes does she have?

\_\_\_\_\_

14. Maddie has 180 coins. Of these coins,  $\frac{1}{12}$  are dimes. About how many dimes does she have?

\_\_\_\_\_

15. A rectangle has length 3 feet and width  $\frac{1}{4}$  foot. What is the area of the rectangle?

\_\_\_\_\_

16. A rectangle has area 3 square feet and width  $\frac{1}{2}$  foot. What is the length of the rectangle?

\_\_\_\_\_

17. Nisha wants to study 5 hours for the spelling bee. If she studies  $\frac{1}{3}$  hour per night, how many nights will she have to study?

\_\_\_\_\_

**Homework**

Solve.

*Show your work.*

1. Dan's Ice Cream comes in cartons of two sizes. The large carton holds  $4\frac{1}{2}$  pounds. The small carton holds  $1\frac{3}{4}$  pounds less. How much ice cream does the small carton hold?
- \_\_\_\_\_

2. Mac picked four baskets of blueberries. The weights of the berries in pounds are given below. Order the weights from lightest to heaviest.

$$\frac{5}{4} \quad \frac{9}{10} \quad \frac{4}{5} \quad \frac{13}{20}$$

\_\_\_\_\_

3. Four cones of Dan's Ice Cream hold  $\frac{1}{2}$  pound. How much ice cream does each cone hold?
- \_\_\_\_\_

4. If a dish of ice cream holds  $\frac{1}{4}$  pound, how many dishes can you get from a  $4\frac{1}{2}$ -pound carton of Dan's Ice Cream?
- \_\_\_\_\_

Solve. Give your answer in simplest form.

5.  $3 \div \frac{1}{5} =$  \_\_\_\_\_

6.  $1\frac{3}{4} + \frac{11}{16} =$  \_\_\_\_\_

7.  $\frac{9}{14} \cdot 2\frac{1}{3} =$  \_\_\_\_\_

8.  $2\frac{3}{5} \cdot 6 =$  \_\_\_\_\_

9.  $\frac{1}{3} + \frac{3}{5} =$  \_\_\_\_\_

10.  $\frac{5}{6} + \frac{8}{9} =$  \_\_\_\_\_

11.  $\frac{1}{8} \div 4 =$  \_\_\_\_\_

12.  $\frac{2}{5} - \frac{1}{10} =$  \_\_\_\_\_

13.  $3\frac{5}{7} - 1\frac{1}{2} =$  \_\_\_\_\_

14.  $\frac{7}{8} \cdot \frac{2}{7} =$  \_\_\_\_\_