Name: _____

PRACTICE TUTORIAL

1-1 Additional Practice

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In 1–6, find each sum or difference.

1. $45.6 + 26.3$

2. $14.25 - 5.14$

3. $17.2 + 6.08$

4. $3.652 - 1.41$

5. $18.06 + 9.798$

6. $8.006 - 6.38$

In 7–9, find each product.

7. 4.89×2.2

8. 2.01×0.43

9. 54.1×0.69

10. Look for Relationships Complete the sequence of numbers in this set. Explain the pattern. MP.7

7.5 6.25 5 ☐ ☐

11. Critique Reasoning Jaime wrote $4.4 - 0.33 = 1.1$. Is his answer reasonable? Explain why or why not. MP.3

12. The weights of 3 kittens at one week of age were 3.6 ounces, 4.2 ounces, and 3.3 ounces. If each kitten has gained 2.3 ounces, how much does each of the kittens weigh?

13. A movie theater is having a special. If a group of four pays $7.25 each for tickets, each person can get popcorn and a drink for $5.75. Use the expression $4(5.75 + 7.25)$ to find the total cost for 4 friends.

14. Reasoning If you multiply two decimals that are less than 1, can you predict whether the product will be less than or greater than either of the factors? Explain. MP.2

15. Two factors are multiplied and their product is 34.44. One factor is a whole number. What is the least number of decimal places in the other factor? Explain.

16. **Make Sense and Persevere** A factory makes parts for toys in different quantities, as shown in the table. How much would 11 parts cost? MP.1

Number of Parts	2	7	12	15
Cost	$0.90	$3.15	$5.40	$6.75

17. The perimeter of a 5-sided figure is 45.56 meters. Two of the sides have the same length. The sum of the other three side lengths is 24.2 meters. How long is each of the same-length sides? Explain.

18. **Critique Reasoning** Kim multiplied 8×0.952 and got 76.16. How can you estimate to show that Kim's answer is incorrect? MP.3

19. **Higher Order Thinking** The decimal 104.3 becomes 1,043 when multiplied by 10. The same number becomes 10.43 when multiplied by 0.10. Explain why.

Assessment Practice

20. Use the information in the table to solve each problem. Estimate to check that your answers are reasonable.

Craft Supplies	
Poster board	$1.29/sheet
Markers	$4.50/pack
Tape	$1.99/roll
Glue	$2.39/tube
Construction paper	$3.79/pack

PART A

How much more does 1 tube of glue cost than 1 roll of tape?

PART B

What is the total cost for 2 packs of markers and a pack of construction paper?

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PRACTICE TUTORIAL

1-2 Additional Practice

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In 1–4, divide. Record remainders.

1. $13\overline{)1{,}722}$
2. $44\overline{)6{,}668}$
3. $48\overline{)4{,}896}$
4. $65\overline{)99{,}521}$

In 5–8, divide. Write remainders as decimals.

5. $34 \div 10$
6. $9 \div 90$
7. $231 \div 42$
8. $9{,}751 \div 98$

In 9–12, divide.

9. $78.32 \div 2$
10. $14.36 \div 4$
11. $66.15 \div 5$
12. $8.2 \div 2$

In 13–16, divide. Annex zeros if needed to write remainders as decimals.

13. $188.4 \div 60$
14. $0.86 \div 0.004$
15. $59.6 \div 8$
16. $11.2 \div 25$

17. Vicky makes jewelry. She uses 42 beads for each necklace that she makes, and she has 500 beads. How many necklaces can she make? Explain.

18. **Critique Reasoning** Dana said that $0.6 \div 30 = 0.02$. Is she correct? Explain. MP3

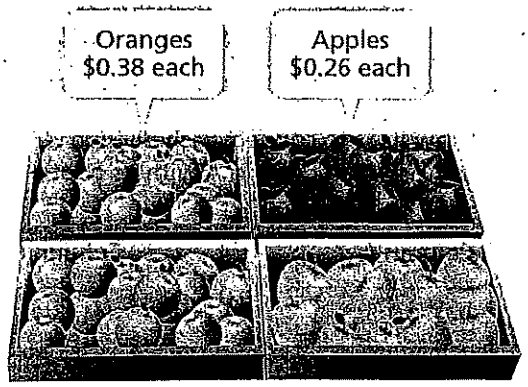
In 19–21, use the diagram at the right.

Samantha visits her local farmer's market to buy apples and oranges to make a fruit salad. She has $10.00 to spend.

19. If Samantha buys only apples, how many can she buy?

20. If Samantha buys only oranges, how many can she buy?

21. Samantha decides to buy both apples and oranges. Give two different solutions to tell how many apples and how many oranges she might buy.



22. **Construct Arguments** April has 905 baseball cards. She wants to organize them on pages that hold 18 cards each. She has 50 pages. Does April have enough pages to organize all her cards? Explain. MP.3

23. **Higher Order Thinking** How do you know that $1.016 \div 4.064 \neq 0.025$ without doing the division?

24. **Make Sense and Persevere** You have $15.60 to buy juice boxes. Each juice box costs $0.80. How many juice boxes can you buy? Should you expect to get change when you pay for the juice boxes? If so, how much? MP.1

25. When you divide 7.7 by 700, how many decimal places will the quotient have? Use place-value reasoning to explain how you know.

26. Which bag of potatoes costs more per pound? How much more?

Potatoes	
12-pound bag	$6.96
25-pound bag	$15.75

Assessment Practice

27. Draw lines to connect each division expression in Column A with its quotient in Column B.

Column A	Column B
26.4 ÷ 12	117.15
46.86 ÷ 0.4	2.2
197.04 ÷ 0.02	9,852

28. Draw lines to connect each division expression in Column A with its quotient in Column B.

Column A	Column B
43.2 ÷ 8	5.2
165 ÷ 30	5.4
140.4 ÷ 27	5.5

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PRACTICE TUTORIAL

1-3 Additional Practice

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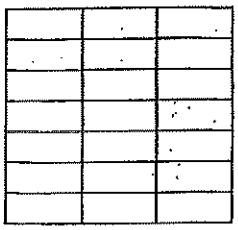
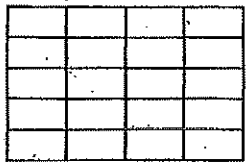
In 1–3, find each product. Shade the model to help solve.

1. $\frac{4}{7} \times \frac{2}{3}$



2. $\frac{1}{2} \times \frac{11}{12}$

3. $\frac{2}{5} \times \frac{1}{4}$



In 4–7, find each product.

4. $\frac{3}{4} \times \frac{1}{8}$

5. $\frac{8}{9} \times \frac{9}{10}$

6. $\frac{3}{7} \times \frac{2}{3}$

7. $\frac{1}{5} \times \frac{5}{6}$

In 8–11, estimate the product. Then find each product.

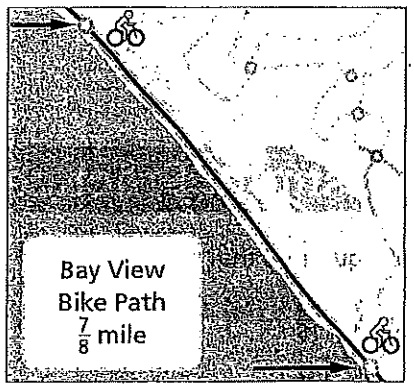
8. $4 \times 6\frac{1}{4}$

9. $3\frac{2}{3} \times 2\frac{3}{4}$

10. $\frac{7}{8} \times 4\frac{1}{6}$

11. $1\frac{1}{2} \times 2\frac{3}{4}$

In 12 and 13, use the diagram at the right.



12. Keyshia is riding her bike on Bay View Bike Path. Keyshia's bike got a flat tire $\frac{2}{3}$ of the way down the path, so she had to stop. How far did Keyshia ride?

13. The Cityscape Bike Path is $2\frac{2}{3}$ times longer than the Bay View Bike Path. What is the length of the Cityscape Bike Path?

14. Vincent found a recipe for banana macadamia nut bread that uses $\frac{3}{4}$ cup of macadamia nuts. If he wants to make only half of the recipe, how many cups of macadamia nuts should Vincent use?

15. Higher Order Thinking If $\frac{1}{2}$ is multiplied by $\frac{1}{2}$, will the product be greater than $\frac{1}{2}$? Explain.

16. Of the apps on Juan's tablet, $\frac{3}{4}$ are gaming apps, and $\frac{5}{7}$ of the gaming apps are action games. What fraction of the apps on Juan's tablet are action games?

17. In gym class, Matthew runs $\frac{3}{4}$ mile. His gym teacher runs 3 times that distance. How far does Matthew's gym teacher run?

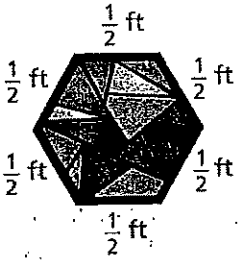
18. Patrick walks $\frac{9}{10}$ mile to the gym. How far has he walked when he has covered $\frac{2}{3}$ of the distance to the gym?

19. Construct Arguments Which is greater, $\frac{4}{7} \times \frac{1}{4}$ or $\frac{4}{7} \times \frac{1}{6}$? Explain. © MP.3

20. One World Trade Center in New York City is about $3\frac{1}{5}$ times as tall as the Washington Monument in Washington, D.C. The Washington Monument is 555 feet tall. About how tall is One World Trade Center?

21. Reasoning Lucie can walk about $3\frac{4}{5}$ miles each hour. About how far can she walk in 2 hours 45 minutes? © MP.2

22. Be Precise The stained glass window shown is a regular hexagon. How can you use multiplication to find the window's perimeter? © MP.6



© Assessment Practice

23. Select all equations that are true.

- ☐ $4\frac{1}{12} \times \frac{3}{4} = \frac{49}{16}$
- ☐ $8\frac{5}{6} \times 2 = 17\frac{2}{3}$
- ☐ $5\frac{1}{2} \times 5\frac{1}{2} = 30\frac{1}{4}$
- ☐ $9\frac{1}{5} \times \frac{3}{5} = 9\frac{4}{5}$
- ☐ $6\frac{3}{4} \times 3\frac{1}{4} = 19$

24. Select all the expressions that have $\frac{8}{15}$ as a product.

- ☐ $\frac{2}{3} \times \frac{4}{5}$
- ☐ $\frac{8}{9} \times \frac{3}{5}$
- ☐ $\frac{3}{15} \times \frac{5}{15}$
- ☐ $\frac{7}{10} \times \frac{1}{5}$
- ☐ $\frac{11}{15} \times \frac{8}{11}$

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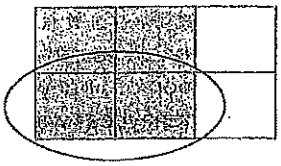
PRACTICE TUTORIAL

1-4 Additional Practice

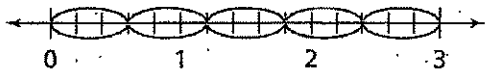
Scan for Multimedia

In 1 and 2, complete each division sentence.

1. $\frac{2}{3} \div \square = \frac{1}{3}$



2. $3 \div \square = 5$



In 3 and 4, find each quotient. Draw a diagram to help.

3. $\frac{3}{5} \div 2$

4. $4 \div \frac{2}{5}$

In 5–8, find each reciprocal.

5. $\frac{5}{9}$

6. 8

7. $\frac{7}{3}$

8. $\frac{1}{12}$

In 9–16, find each quotient.

9. $8 \div \frac{2}{5}$

10. $4 \div \frac{1}{6}$

11. $18 \div \frac{3}{8}$

12. $\frac{4}{5} \div 4$

13. $20 \div \frac{3}{4}$

14. $9 \div \frac{1}{8}$

15. $15 \div \frac{1}{3}$

16. $6 \div \frac{2}{3}$

17. **Reasoning** A store sells honey in $\frac{3}{8}$-quart jars. If the store has 24 quarts of honey available on a shelf, how many jars of honey are on the shelf? MP.2

18. **Higher Order Thinking** Olivia divided a fraction by $\frac{3}{4}$. The quotient was a whole number. Was the dividend less than $\frac{3}{4}$? Explain.

19. A construction worker has a rope that is 10 meters long. She needs to cut it into pieces that are each $\frac{2}{9}$ meter long. How many pieces can she cut without having any rope left over?

20. Some friends are making cakes for a bake sale. They need 6 cups of sugar. However, they only have a $\frac{1}{4}$-cup measuring cup. How many times will they need to fill the measuring cup?

21. Model with Math A canal is 10 miles long. It has a lock every $\frac{2}{3}$ mile. How many locks are on the canal? Draw a number line to represent the problem. © MP.4

22. Make Sense and Persevere It is estimated that one honeybee can make about $\frac{1}{12}$ teaspoon of honey in its lifetime. How many honeybees will it take to make 2 tablespoons of honey? One tablespoon is equivalent to 3 teaspoons. © MP.1

23. A recording of the current weather conditions lasts $\frac{3}{4}$ minute. If the recording plays repeatedly, how many times would it play in 1 hour?

24. How many $\frac{3}{8}$-pound burgers can be made from 3 pounds of ground turkey?

25. Model with Math A team is practicing on a $\frac{3}{8}$-acre field. The coach divides the field into two equal parts for the practice. What fraction of an acre is each part? Use the rectangle to represent the problem. Then write an equation to show the solution. © MP.4

The rectangle represents 1 whole acre. Draw lines to represent $\frac{3}{8}$ acre first. Then divide that into 2 equal parts.

© Assessment Practice

26. Select all the equations that are true.

- ☐ $7 \div \frac{2}{3} = 7$
- ☐ $7 \div \frac{3}{2} = 7 \times \frac{2}{3}$
- ☐ $12 \div \frac{3}{4} = 12 \times \frac{4}{3}$
- ☐ $12 \div \frac{1}{12} = 12 \times 12$
- ☐ $15 \div \frac{1}{2} = 15 \times \frac{1}{4}$

27. Select all the equations that are true.

- ☐ $\frac{1}{4} \div 4 = \frac{1}{4} \div \frac{4}{1} = \frac{1}{4} \times \frac{1}{4}$
- ☐ $\frac{2}{5} \div 5 = \frac{2}{5} \div \frac{5}{1} = \frac{2}{5} \times \frac{1}{5}$
- ☐ $\frac{4}{8} \div 8 = \frac{4}{8} \div \frac{1}{8} = \frac{4}{8} \times \frac{8}{1}$
- ☐ $\frac{2}{4} \div 4 = \frac{2}{4} \div \frac{4}{1} = \frac{2}{4} \times \frac{1}{4}$
- ☐ $\frac{2}{7} \div 6 = \frac{2}{7} \div \frac{1}{6} = \frac{2}{7} \times \frac{6}{1}$