Fifth Grade

Answer Key
Unit 5: Multiplying & Dividing Fractions

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Name _____

Problem of the Day

Lesson 1

Find each sum.

$\frac{1}{6} + \frac{1}{6} =$ $\frac{2}{6}$

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ $\frac{3}{6}$

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ $\frac{4}{6}$

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ $\frac{5}{6}$

$\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ $\frac{6}{6}$

Lesson 2

What fraction of each model is shaded?

$\frac{1}{3}$

$\frac{2}{3}$

Lesson 3

Fisher needs to read a book that has 125 pages. It takes him 5 days to read the book, and he reads the same number of pages each day. How many pages does he read each day?

25 pages

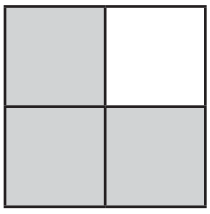
Lesson 4

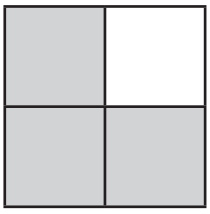
The school band is selling boxes of citrus fruit as a fundraiser. Each box contains 1 grapefruit and 3 oranges. How many grapefruits and how many oranges would be in 8 boxes of fruit?

8 grapefruits and 24 oranges

Lesson 5

How many fourths are shaded in the model shown?





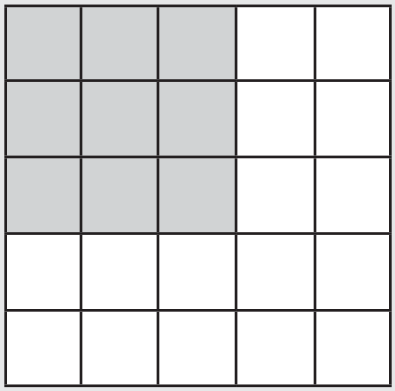
$\frac{6}{4}$

Name _____

Problem of the Day

Lesson 6

Name the shaded part of the model.



$\frac{9}{25}$

Lesson 7

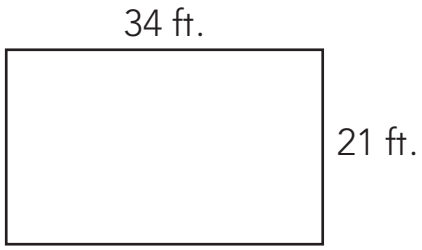
Use an algorithm to find the product.

2.5×3.4

8.5

Lesson 8

Find the area of the rectangle.



714 sq. ft.

Lesson 9

Use the product $12 \times 15 = 180$ to estimate whether each of the products will be greater or less than 180. Write > or < next to each.

9×15 >	21×15 >
14×15 >	7×15 <
11×15 >	12.5×15 >

Lesson 10

One batch of chili uses 4 cups of beans. How many cups of beans would be in 2 batches of chili? How many cups of beans would be in half of a batch of chili?

2 batches: 8 cups half batch: 2 cups

Name _____

Problem of the Day

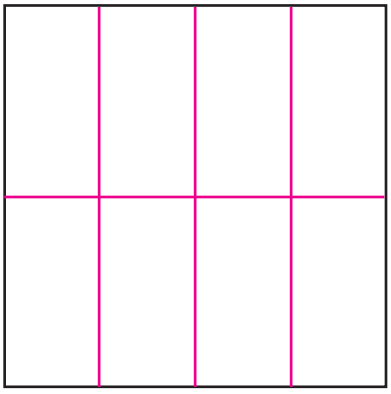
Lesson 11

Find the sum.

$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} =$ $\frac{9}{4}$

Lesson 12

Divide the square into 4 equal pieces.



Now, divide each equal piece into 2 equal pieces. How many equal pieces do you have in all?

8 pieces

Lesson 13

A tray of brownies is shared equally among 4 people. What part of the tray does each person receive?

$\frac{1}{4}$

A tray of brownies is shared equally among 6 people. What part of the tray does each person receive?

$\frac{1}{6}$

Lesson 14

A roll of cord for making bracelets is 38 yards long. How many bracelets can be made from the cord if each bracelet requires 2 yards of cord?

19 bracelets

Lesson 15

Two walls have the same area. One wall is divided into 5 equal sections and one of the sections will be painted blue. The other wall is divided into 3 equal sections and one of the sections will be painted blue. Which wall will use more blue paint? Explain.

The wall with 3 sections will use more paint because the sections are larger than the wall with 5 sections.

Name _____

Problem of the Day

Lesson 16

Raya earns $8.00 for each hour that she babysits. How much would she earn in $1\frac{1}{2}$ hours?

$12.00

Lesson 17

Each day Eric walks his neighbor's dog, he gets $2.50. Eric walks his neighbor's dog for 5 days. How much money does he earn in all?

$12.50

Lesson 18

Find the sum.

$$1\frac{1}{2} + 1\frac{1}{2} + 1\frac{1}{2} =$$

$4\frac{1}{2}$

Lesson 19

Put the products in order from least to greatest.

2×1	**2**
$2 \times \frac{1}{2}$	**1**
$2 \times 2\frac{1}{2}$	**4**
2×2	**3**

Lesson 20

Draw models to illustrate the difference between $\frac{1}{3} \div 4$ and $4 \div \frac{1}{3}$.

Answers will vary.

Name _____

Pre-Assessment

Multiply.

1 $9 \times \frac{1}{4}$ $2\frac{1}{4}$

2. $4 \times \frac{3}{8}$ $1\frac{4}{8}$

3. $\frac{6}{10} \times \frac{2}{3}$ $\frac{12}{30}$

4. $\frac{3}{5} \times \frac{10}{12}$ $\frac{30}{60}$

Divide. Show your work.

5. $4 \div \frac{1}{6}$ 24

6. $\frac{1}{2} \div 8$ $\frac{1}{16}$

7. $3\frac{4}{5} \times 2\frac{5}{8}$ $\frac{152}{105}$

8. $2\frac{1}{8} \times 4\frac{1}{2}$ $\frac{17}{72}$

9. Samantha is making chocolate chip cookies. She needs $1\frac{1}{4}$ cups chocolate chips for one batch. How many cups of chocolate chips will Samantha need to make 6 batches of chocolate chip cookies?

$7\frac{2}{4}$

10. Evan bought 4 large pizzas for a party. Each person at the party received $\frac{1}{6}$ of a large pizza. How many guests were at the party?

24 people

Name _____

Multiplying Fractions Quiz

Multiply. Draw a model.

1. $6 \times \frac{1}{4}$ **24**
Models will vary.

2. $3 \times \frac{8}{10}$ $\frac{30}{8}$
Models will vary.

Multiply. Show or explain how you found your answer.

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

4. $\frac{3}{4} \times 6$ $\frac{18}{4}$

Multiply. Use an area model to show you found at least one answer.

5. $\frac{2}{3} \times \frac{1}{2}$ $\frac{2}{6}$

6. $\frac{3}{5} \times \frac{1}{6}$ $\frac{3}{30}$

7. $\frac{2}{3} \times \frac{4}{5}$ $\frac{8}{15}$

8. $\frac{3}{8} \times \frac{2}{3}$ $\frac{6}{24}$

9. James made 42 cupcakes for the school bake sale. Of the cupcakes he made, $\frac{1}{6}$ are vanilla and $\frac{5}{6}$ are chocolate. How many of each flavor cupcake did James make?

7 are vanilla and
35 are chocolate

10. A recipe for pumpkin muffins calls for $\frac{1}{2}$ cup of pumpkin. If you are making $\frac{1}{4}$ of the recipe, how many cups of pumpkin will you use?

$\frac{1}{8}$ **cup of pumpkin**

Name _____

Dividing Fractions Quiz

Divide. Draw a model.

1. $4 \div \frac{1}{10}$ **40**
Models will vary.

2. $6 \div \frac{1}{3}$ **18**
Models will vary.

3. $10 \div \frac{1}{5}$ **50**
Models will vary.

4. $2 \div \frac{1}{12}$ **24**
Models will vary.

Divide. Show or explain how you found your answer.

5. $\frac{1}{5} \div 10$ **$\frac{1}{50}$**

6. $\frac{1}{6} \div 12$ **$\frac{1}{72}$**

7. $\frac{1}{4} \div 4$ **$\frac{1}{16}$**

8. $\frac{1}{8} \div 16$ **$\frac{1}{128}$**

9. Makayla uses $\frac{1}{4}$ yard of fabric to make a pencil case. She has 20 yards of fabric. How many pencil cases can Makayla make?

80 pencil cases

10. Anthony has $\frac{1}{2}$ bag of potting soil. He splits the soil evenly into 4 pots. What part of a bag of soil does Anthony put in each pot?

$\frac{1}{8}$ bag of soil

Name _____

Multiplying Mixed Numbers Quiz

Multiply.

1. $4 \times 2\frac{2}{4}$ $\frac{40}{4}$

2. $6\frac{1}{12} \times 4$ $\frac{292}{12}$

3. $2\frac{6}{10} \times 10$ $\frac{260}{10}$

4. $3 \times 4\frac{5}{6}$ $\frac{87}{6}$

5. $1\frac{7}{8} \times 7\frac{1}{2}$ $\frac{30}{16}$

6. $6\frac{2}{3} \times 2\frac{3}{4}$ $\frac{31}{12}$

7. $3\frac{1}{3} \times 4\frac{1}{2}$ $\frac{19}{6}$

8. $8\frac{3}{4} \times 4\frac{1}{8}$ $\frac{62}{32}$

9. Ben builds a dragon and a tower from sand. He uses $2\frac{1}{2}$ pounds of sand to create the dragon. He uses $4\frac{1}{4}$ times more sand to make the tower than he did for the dragon. How many pounds of sand does he use to create the tower?

$\frac{14}{8}$

10. Emmy estimates that she will drink $1\frac{2}{5}$ bottles of water for every mile that she runs. How many bottles of water would she expect to drink if she runs $2\frac{1}{2}$ miles?

$\frac{35}{10}$

Name _____

Assessment

Multiply. Show or explain how you found your answers.

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

2. $8 \times \frac{3}{5}$ $\frac{24}{5}$

3. $\frac{1}{3} \times 9$ $\frac{9}{3}$

4. $\frac{11}{12} \times 2$ $\frac{22}{12}$

Multiply. Use an area model to show how to find the answer.

5. $\frac{1}{4} \times \frac{1}{2}$ $\frac{1}{8}$

6. $\frac{3}{4} \times \frac{2}{3}$ $\frac{6}{12}$

Multiply.

7. $\frac{2}{5} \times \frac{5}{8}$ $\frac{10}{40}$

8. $\frac{5}{6} \times \frac{7}{8}$ $\frac{35}{48}$

Find the area of each rectangle.

9.

$\frac{9}{32}$ sq. units

10.

$\frac{2}{6}$ sq. units

Divide. Show or explain how you found your answer.

11. $2 \div \frac{1}{4}$ $\frac{8}{1}$

12. $10 \div \frac{1}{8}$ $\frac{80}{1}$

13. $\frac{1}{3} \div 5$ $\frac{1}{15}$

14. $\frac{1}{5} \div 4$ $\frac{1}{20}$

Multiply.

15. $10\frac{2}{3} \times 3\frac{3}{5}$ $\frac{50}{15}$

16. $5\frac{3}{4} \times 5\frac{1}{2}$ $\frac{34}{8}$

17. Peyton made a fruit salad for a party. She used $\frac{3}{4}$ cup of grapes and $\frac{2}{3}$ of the grapes were green grapes. How many cups of green grapes did Peyton use for the fruit salad?

$\frac{1}{4}$ cup

18. Thomas had 3 pounds of clay. He used the same amount of clay to make each of 4 small pots, using all his clay. How much clay did he use for each pot?

$\frac{3}{4}$ pound of clay

19. A farmer has an 8-acre plot for planting vegetables. She uses $\frac{1}{3}$ acre for each kind of vegetable she plants. How many different kinds of vegetables does she plant?

24 different kinds of vegetables

20. Sarah played a game on the computer. In her first round, she earned $2\frac{1}{2}$ points. In her second round, Sarah earned $3\frac{3}{4}$ times more points than in her first round. How many points did Sarah earn in her second round?

$\frac{75}{8}$ points

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

$$\frac{8}{3}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

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

$$\frac{14}{3}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{2}{3} \times 3$$

$$\frac{6}{3}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{3}{4} \times 3$$

$$\frac{9}{4}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

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

$$\frac{15}{4}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

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

$$\frac{24}{4}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{2}{5} \times 3$$

$$\frac{6}{5}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{2}{5} \times 6$$

$$\frac{12}{6}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

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

$$\frac{12}{5}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{4}{5} \times 4$$

$$\frac{16}{5}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{5}{6} \times 2$$

$$\frac{10}{6}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{5}{6} \times 4$$

$$\frac{20}{6}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

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

$$\frac{12}{8}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{3}{8} \times 6$$

$$\frac{18}{8}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

$$\frac{5}{8} \times 5$$

$$\frac{25}{8}$$

Grade 5 • Unit 5 • Lesson 5

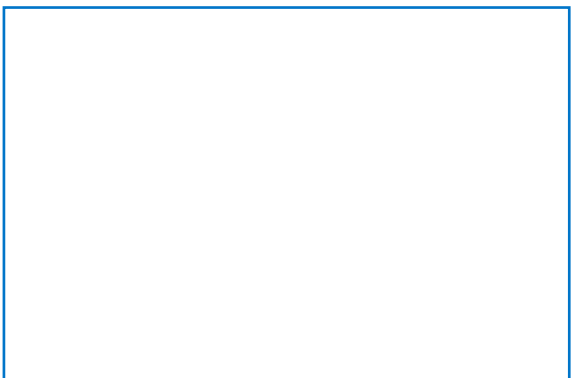
Whole Number by Fraction Cards, Set 1

$$\frac{7}{8} \times 3$$

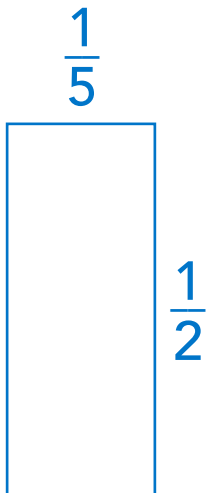
$$\frac{21}{8}$$

Grade 5 • Unit 5 • Lesson 5

Whole Number by Fraction Cards, Set 1

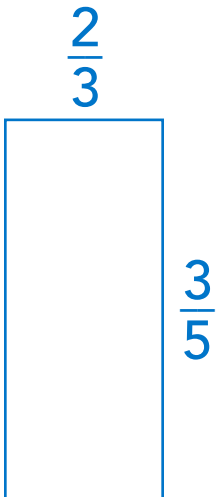


$\frac{3}{8}$ sq. units



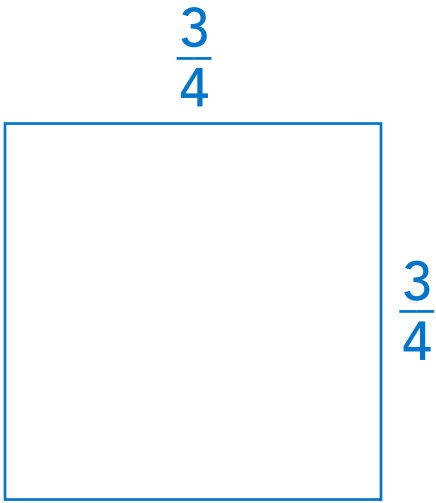
$\frac{1}{10}$ sq. units

$\frac{2}{12}$ sq. units

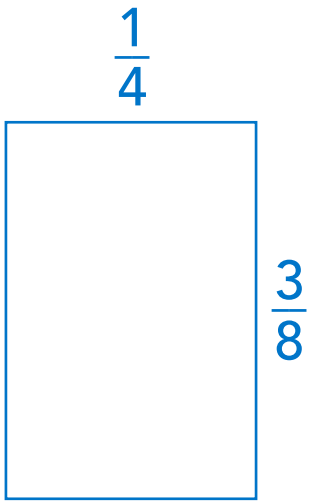


$\frac{6}{15}$ sq. units

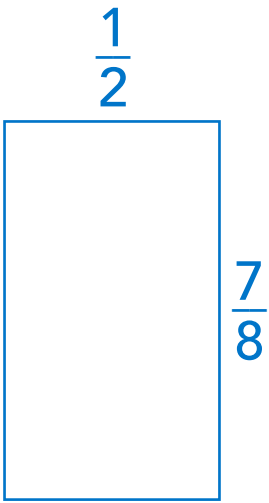
$\frac{2}{24}$ sq. units



$\frac{9}{16}$ sq. units



$\frac{3}{32}$ sq. units



$\frac{7}{16}$ sq. units

$$\frac{2}{3} \times 3$$

$$\frac{6}{3}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{5}{5} \times 3$$

$$\frac{15}{5}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{6}{4} \times 3$$

$$\frac{18}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

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

$$\frac{3}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{7}{8} \times 3$$

$$\frac{21}{8}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$2\frac{3}{2} \times 3$$

$$2\frac{9}{2}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{2}{2} \times 3$$

$$\frac{6}{2}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{3}{4} \times 3$$

$$\frac{9}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{2}{3} \times 3$$

$$\frac{6}{3}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{5}{5} \times 3$$

$$\frac{15}{5}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{6}{4} \times 3$$

$$\frac{18}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

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

$$\frac{3}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{7}{8} \times 3$$

$$\frac{21}{8}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$2\frac{3}{2} \times 3$$

$$2\frac{9}{2}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{2}{2} \times 3$$

$$\frac{6}{2}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

$$\frac{3}{4} \times 3$$

$$\frac{9}{4}$$

Grade 5 • Unit 5 • Lesson 9

×3 Sorting Expressions Cards

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

$$\frac{4}{3}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{6}{6} \times 4$$

$$\frac{24}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{2}{6} \times 4$$

$$\frac{8}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{8}{8} \times 4$$

$$\frac{32}{8}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{2}{2} \times 4$$

$$\frac{8}{2}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{8}{2} \times 4$$

$$\frac{32}{2}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{9}{6} \times 4$$

$$\frac{36}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

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

$$\frac{12}{8}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

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

$$\frac{4}{3}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{6}{6} \times 4$$

$$\frac{24}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{2}{6} \times 4$$

$$\frac{8}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{8}{8} \times 4$$

$$\frac{32}{8}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{2}{2} \times 4$$

$$\frac{8}{2}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{8}{2} \times 4$$

$$\frac{32}{2}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{9}{6} \times 4$$

$$\frac{36}{6}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

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

$$\frac{12}{8}$$

Grade 5 • Unit 5 • Lesson 9

×4 Sorting Expressions Cards

$$\frac{1}{5} \times \frac{1}{2}$$

$$\frac{1}{10}$$

$$\frac{3}{3} \times \frac{1}{2}$$

$$\frac{3}{6}$$

$$\frac{2}{8} \times \frac{1}{2}$$

$$\frac{2}{16}$$

$$\frac{7}{7} \times \frac{1}{2}$$

$$\frac{7}{14}$$

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

$\frac{3}{8}$

Grade 5 • Unit 5 • Lesson 9

$\times\frac{1}{2}$ Sorting Expressions Cards

$$\frac{7}{8} \times \frac{1}{2}$$

$$\frac{7}{16}$$

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

$$\frac{5}{6}$$

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

$$\frac{7}{6}$$

$$\frac{1}{5} \times \frac{1}{2}$$

$$\frac{1}{10}$$

$$\frac{3}{3} \times \frac{1}{2}$$

$$\frac{3}{6}$$

$$\frac{2}{8} \times \frac{1}{2}$$

$$\frac{2}{16}$$

$$\frac{7}{7} \times \frac{1}{2}$$

$$\frac{7}{14}$$

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

$\frac{3}{8}$

Grade 5 • Unit 5 • Lesson 9

$\times\frac{1}{2}$ Sorting Expressions Cards

$$\frac{7}{8} \times \frac{1}{2}$$

$$\frac{7}{16}$$

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

$$\frac{5}{6}$$

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

$$\frac{7}{6}$$

A dime is $\frac{1}{10}$ of a centimeter thick. What would be the height of a stack of 6 dimes?

$\frac{6}{10}$ of a centimeter thick

Ryan collects 24 eggs from his chickens. He gives $\frac{2}{3}$ of the eggs to his friend. How many eggs does Ryan give to his friend?

16 eggs

There are 30 students in the school band.
Of the 30 students, $\frac{3}{4}$ play wind instruments.
How many students play wind instruments?

~22 students

The soccer coach has 15 water bottles for the players on her team. Each water bottle holds $\frac{1}{2}$ quart of water. How many quarts of water will the coach use to fill all 15 water bottles?

30 quarts of water

Each time the school principal orders a box of pencils, she keeps $\frac{1}{4}$ of the pencils to use in the office. If, over the course of a year, the principal orders 20 boxes of pencils, how many boxes of pencils does she keep to use in the office?

5 boxes

Malik is making a tomato garden. The garden is $\frac{4}{5}$ meter long and $\frac{3}{8}$ meter wide. What is the area of the garden?

$\frac{12}{40}$ sq. meters

Angel has a $\frac{1}{2}$ pound bag of flour. She uses $\frac{1}{3}$ of the bag of flour to make pizza dough. How many pounds of flour does Angel use to make the dough?

$\frac{1}{6}$ pound of flour

After Thanksgiving dinner, $\frac{2}{3}$ of a pumpkin pie remained. Austin ate $\frac{1}{6}$ of the remaining pie the next day. What part of the whole pie did Austin eat the next day?

$\frac{1}{6}$ of the pie

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

$$\frac{32}{3}$$

Grade 5 • Unit 5 • Lesson 16

Mixed Number Multiplication Cards

$$3 \times 4\frac{3}{4}$$

$$\frac{57}{4}$$

Grade 5 • Unit 5 • Lesson 16

Mixed Number Multiplication Cards

$$1\frac{3}{8} \times 2\frac{1}{2}$$

$$\frac{55}{16}$$

Grade 5 • Unit 5 • Lesson 16

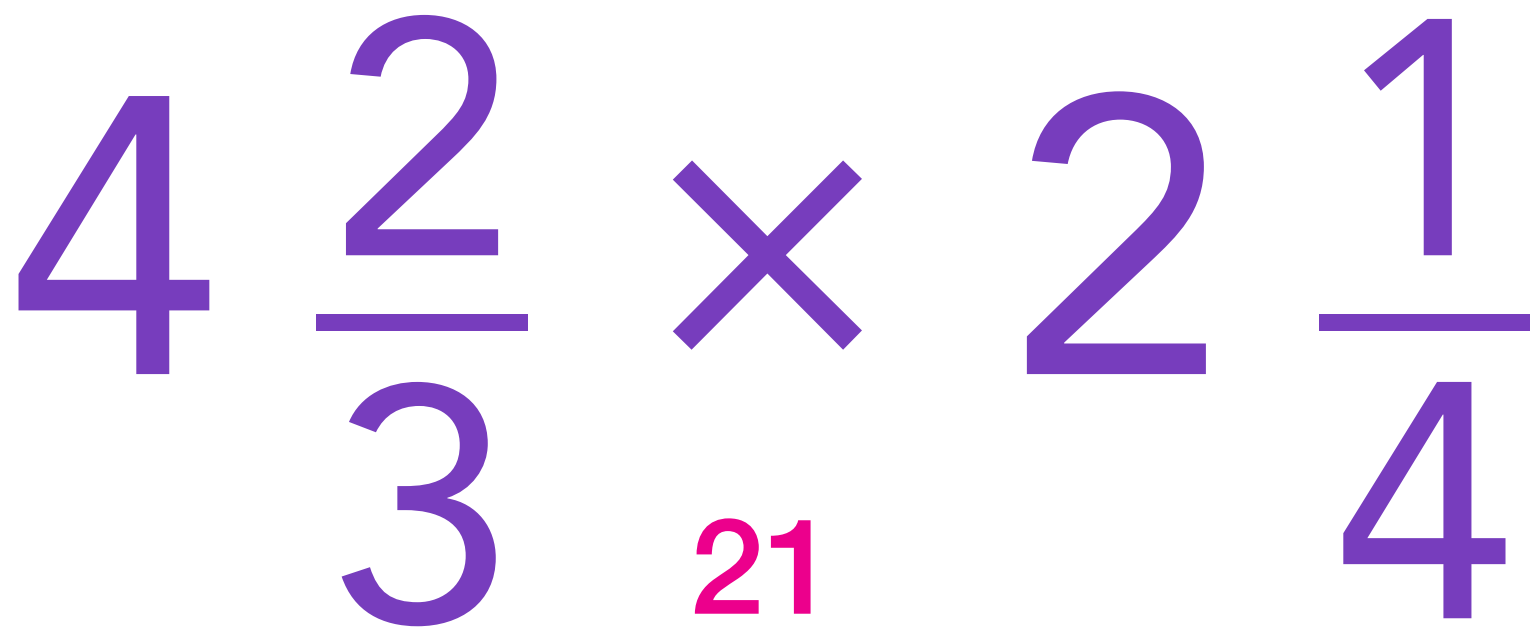
Mixed Number Multiplication Cards

$$2\frac{1}{3} \times 3\frac{1}{2}$$

$$\frac{49}{6}$$

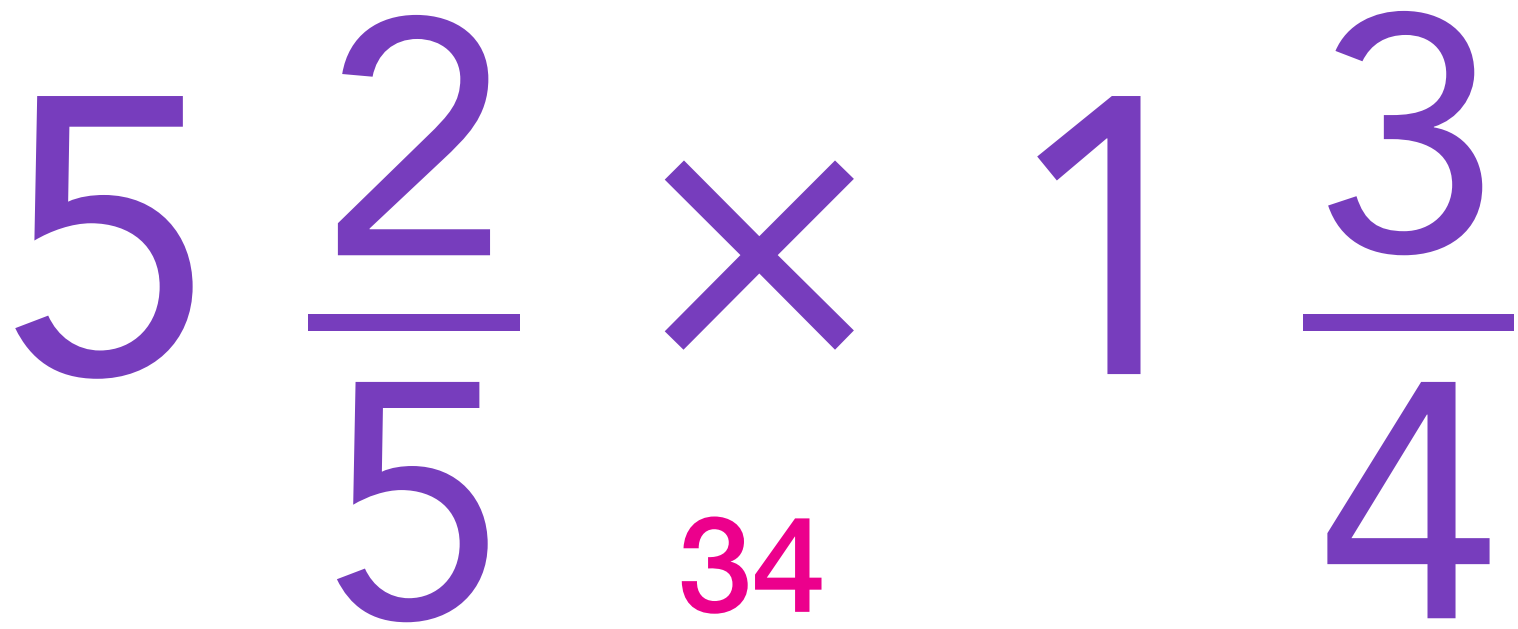
Grade 5 • Unit 5 • Lesson 16

Mixed Number Multiplication Cards



Grade 5 • Unit 5 • Lesson 16

Mixed Number Multiplication Cards



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Mixed Number Multiplication Cards

$$3\frac{7}{8} \times 2\frac{1}{3}$$

$$\frac{38}{24}$$

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Mixed Number Multiplication Cards

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

$$\frac{17}{15}$$

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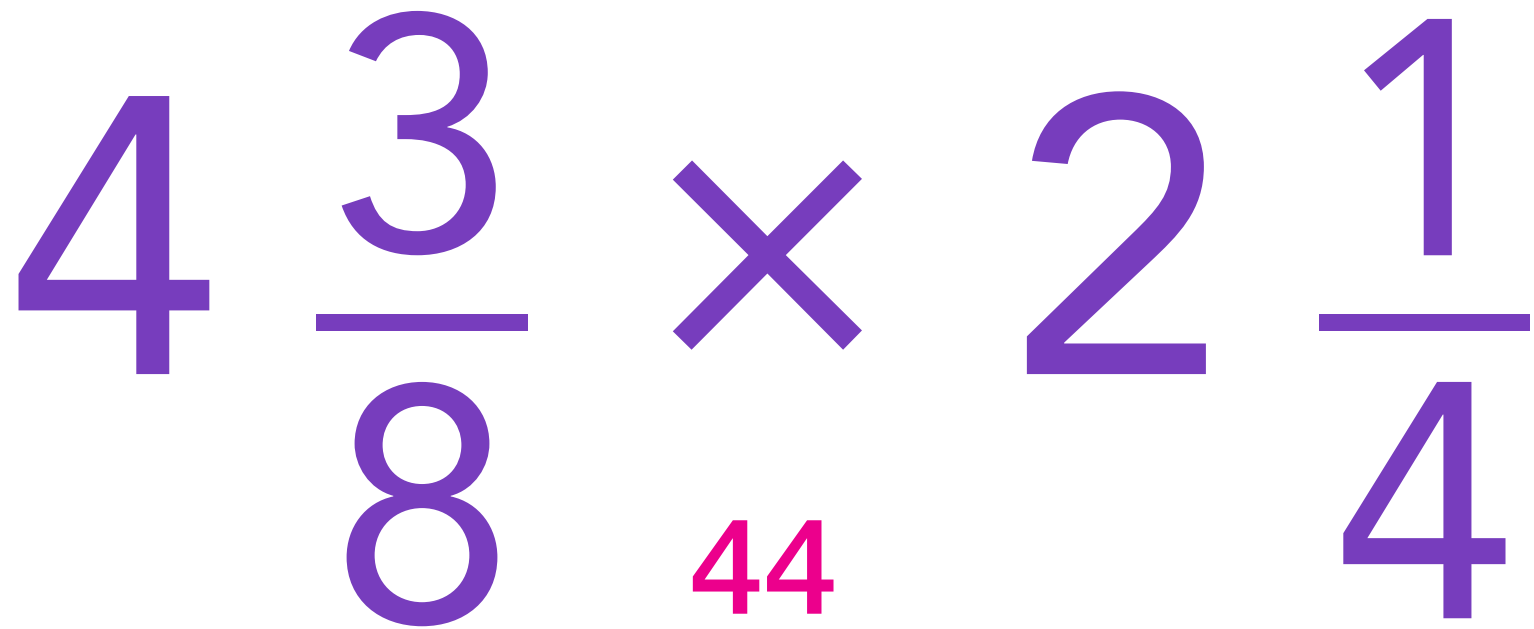
Mixed Number Multiplication Cards



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$$3\frac{1}{3} \times 1\frac{1}{2}$$

$$\frac{13}{6}$$

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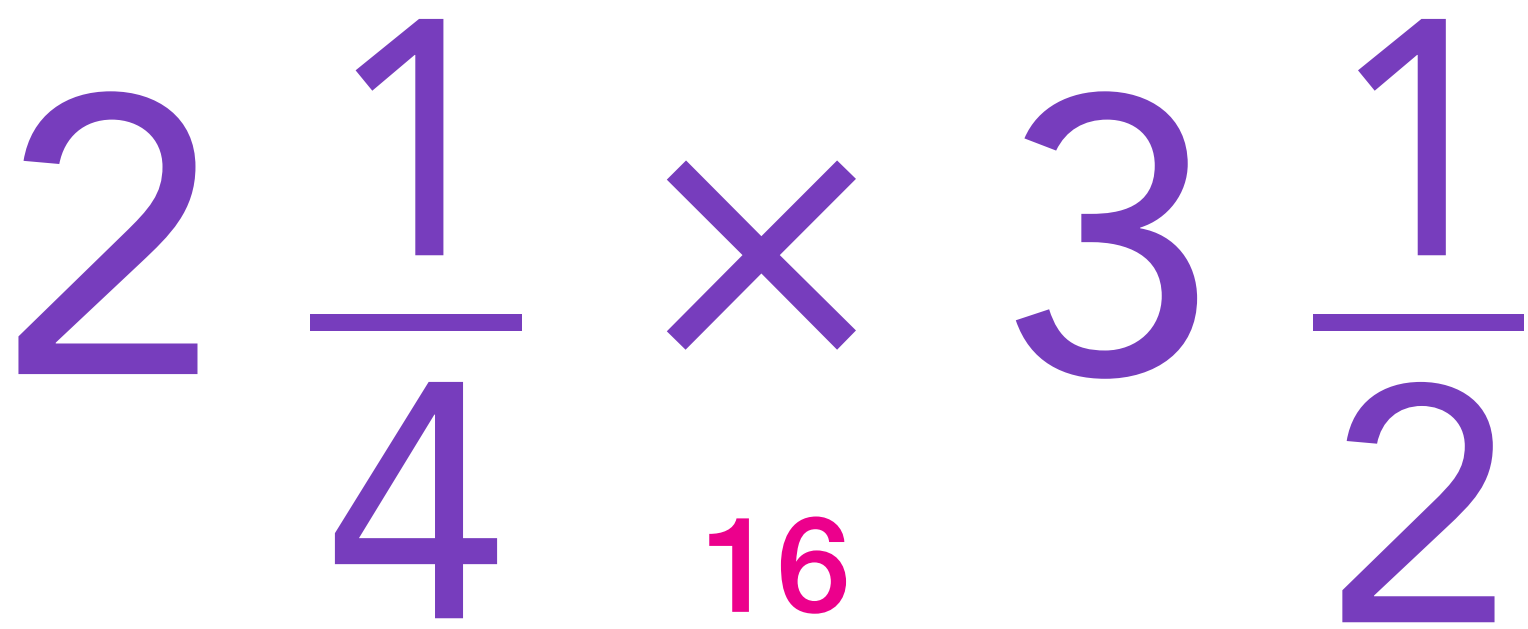

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Mixed Number Multiplication Cards

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

$$\frac{23}{15}$$

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Mixed Number Multiplication Cards

A garden center sells $4\frac{1}{2}$-pound bags of rocks for fish tanks. Amira uses $2\frac{1}{2}$ bags of rocks in her fish tank. How many pounds of rocks does Amira use?

$10\frac{1}{4}$ bags of rocks

Marcello buys $1\frac{1}{4}$ pounds of cherries at the Farmers' Market. He buys $3\frac{1}{2}$ times as many pounds of peaches as cherries. How many pounds of peaches does Marcello buy?

$4\frac{3}{8}$ pounds of peaches

John has a lemonade stand. He pours $8\frac{1}{2}$ ounces of lemonade into each glass. He discovers that he can fill $5\frac{1}{4}$ glasses with each pitcher of lemonade. How many ounces are in each pitcher of lemonade?

$44\frac{5}{8}$

Ali catches a fish that weighs $2\frac{1}{3}$ pounds. Breanna catches a fish that weighs $1\frac{3}{4}$ times as much as the fish that Ali caught. What is the weight of the fish that Breanna caught?

$4\frac{1}{12}$ pounds

Each serving of yogurt is $5\frac{3}{4}$ ounces.

How many ounces are in $2\frac{1}{2}$ servings?

$14\frac{3}{8}$

Each large cooler holds $4\frac{3}{4}$ gallons of water. How much water would be needed to fill $3\frac{1}{3}$ coolers?

$15\frac{10}{12}$

Grace makes 5 quarts of soup. She puts the same amount of soup into each of 3 containers. How many quarts of soup is in each container?

$8\frac{7}{8}$ quarts

Draw a model to show how to find the product.

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

$$\frac{3}{4}$$

Models will vary.

Draw a model to show how to find the product.

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

$$\frac{8}{3}$$

Models will vary.

Draw an area model to show how to find the product.

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

$$\frac{3}{8}$$

Models will vary.

Without multiplying, explain whether each product would be less than 5, equal to 5, or greater than 5.

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

Sample answer: Less than 5 because you are multiply by a number less than one whole.

$\frac{3}{2} \times 5$

Sample answer: More than 5 because you are multiply by a number more than one whole.

$\frac{2}{2} \times 5$

Sample answer: Less than 5 because you are multiply by a number less than one whole.

$\frac{1}{5} \times 5$

Sample answer: Less than 5 because you are multiply by a number less than one whole.

How many $\frac{1}{4}$-yard pieces of wood could be cut from a 3-yard board?

12 pieces of wood

Divide. Show or explain how you found your answer.

$$\frac{1}{3} \div 4$$

$$\frac{1}{12}$$

Find the product any way you choose. Show or explain how you found your answer.

$$\frac{7}{8} \times \frac{5}{6}$$

$$\frac{35}{48}$$

Mrs. Chan bought 6 pints of ice cream for a party. At the end of the party, $\frac{1}{3}$ of the ice cream was left. How many pints of ice cream were left after the party?

2 pints of ice cream

Find the product any way you choose. Show or explain how you found your answer.

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

$$\frac{104}{12}$$

Each serving of cereal is $\frac{3}{4}$ cup. A box of cereal contains $8\ \frac{1}{2}$ servings. How many cups of cereal are in the box?

$11\frac{2}{6}$ cups

Divide. Show or explain how you found your answer.

$$3 \div \frac{1}{8}$$

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