

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



حل الوحدة الحادية عشرة Fractions Divide قسمة الكسور منهج ريفيل

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التواصل الاجتماعي بحسب الصف الخامس



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المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الثالث

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المزيد من الملفات بحسب الصف الخامس والمادة رياضيات في الفصل الثالث

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On My Own

Name _____

1. Marie equally divides 6 bags of soil into these flowerpots. How many bags of soil are in each pot?



$\frac{6}{4}$ bags or $1\frac{2}{4}$ bags

Complete the equation.

2. $\underline{5} \div \underline{9} = \frac{5}{9}$

3. $\underline{13} \div \underline{4} = \frac{13}{4}$

4. $3 \div 8 = \underline{\frac{3}{8}}$

5. $7 \div 9 = \underline{\frac{7}{9}}$

6. $\underline{\frac{1}{3}} \times 7 = 7 \div 3$

7. $\frac{1}{4} \times 5 = 5 \div \underline{4}$

8. A farmer pours 3 pounds of chicken feed equally into 4 bags. What is the weight of the chicken feed in each bag?

- A. $\frac{3}{4}$ pound
- B. $1\frac{3}{4}$ pounds
- C. $\frac{4}{3}$ pounds
- D. $1\frac{1}{4}$ pounds

9. An artist divides 4 pounds of clay equally into 3 containers. What is the weight of the clay in each container? Circle all correct answers.

- A. $1\frac{1}{4}$ pounds
- B. $1\frac{1}{3}$ pounds
- C. $\frac{3}{4}$ pound
- D. $\frac{4}{3}$ pounds

10. Aki pours the same amount of aquarium pebbles from this bag into each of 3 aquariums. What is the weight of the pebbles in each aquarium?

$\frac{7}{3}$ pounds or $2\frac{1}{3}$ pounds



11. What is the unknown divisor? Explain how you know.

$$2 \div \underline{\quad} = \frac{2}{3}$$

3; Sample answer: In a fraction, the divisor is the denominator.

12. **Error Analysis** Spencer divides 6 pounds of food from the food drive into 3 boxes. He says each box has $\frac{3}{6}$ pounds of food. Is he right? How do you know? **No. Sample answer: Spencer divided 3 pounds of food into 6 boxes instead of 6 pounds into 3 boxes. The correct answer is $\frac{6}{3}$ or 2.**

13. **Extend Your Thinking** Write a word problem involving division in which the quotient is $\frac{8}{5}$. **Answers will vary but should involve groups of 8 that need to be divided into 5 parts.**

Reflect

How is a fraction another way to write a division expression?

Answers may vary.

Math is... Mindset

What did you do to avoid stress today?

On My Own

Name _____

Solve each problem. If there is a remainder, decide how to represent and interpret the remainder.

1. Grace walked the number of miles shown over the course of 7 days. She walked the same number of miles each day. How many miles did she walk each day?

$2\frac{6}{7}$ miles



2. There were 210 balloons at a fair. Each of the 50 children that attended the fair got the same number of balloons. How many balloons did each child get?

4 balloons; there were 10 left over

3. Dawn made 50 bracelets. She gave each of her 12 friends the same number of bracelets. How many bracelets did Dawn give to each of her friends? **She gave 4 bracelets to each of her friends; 2 were left over.**

Would you write the quotient for the problem with a remainder or as a mixed number?

- | | |
|---|--|
| <p>4. Equal amounts of juice are poured into different glasses.</p> <p>A. remainder</p> <p>B. mixed number</p> | <p>5. The same number of books must be put on each shelf.</p> <p>A. remainder</p> <p>B. mixed number</p> |
| <p>6. A dog is fed the same amount of food every day.</p> <p>A. remainder</p> <p>B. mixed number</p> | <p>7. Someone gives out the same number of flowers to each of 5 friends.</p> <p>A. remainder</p> <p>B. mixed number</p> |

Solve each problem. If there is a remainder, decide how to represent and interpret the remainder.

8. A water cooler holds 80 cups of water. If 30 people each get an equal amount of water, how many cups of water does each person get? $2\frac{2}{3}$ cups

9. A baker has this bag of flour. He puts equal amounts of flour in 4 canisters. How many pounds of flour are in each canister? $6\frac{1}{4}$ pounds



10. Ryan has 320 pencils. He gives an equal number of pencils to each of 15 friends. How many pencils does he give each friend? **21, with 5 remaining**
11. Rose has a piece of ribbon that is 150 inches long. She is cutting the ribbon into 20 equal pieces. How long will each piece be?

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

12. **Extend Your Thinking** Drew has 169 toy cars that he is organizing into boxes. Each box can hold 30 cars. How many boxes does he need? **6 boxes; The answer to this problem needs to be greater than the quotient with a remainder or the mixed number because the remainder or fraction requires another box.**

Reflect

How do you know if a quotient should be written with a remainder or as a mixed number?

Answers may vary.

Math is... Mindset

How have your strengths in other areas helped you in math?

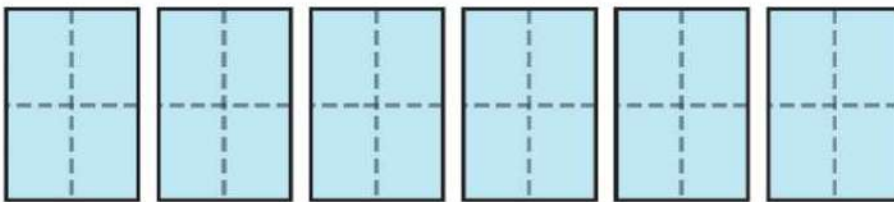
Learn

Meghan has 6 sheets of paper. She uses $\frac{1}{4}$ sheet of paper to make one card.

How many cards can Meghan make?

A division equation can represent the problem.

Partition 6 wholes into fourths.



There are 24 one-fourths in all 6 wholes.

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

Megan can make 24 cards.

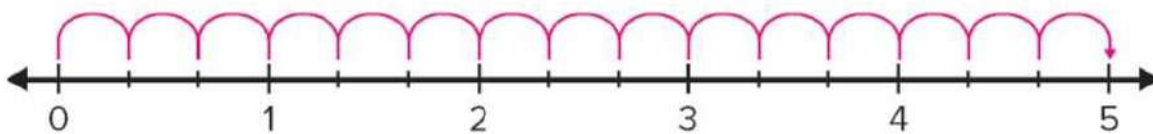
Math is... In My World

Describe other examples of when you might need to find how many fractional parts are in a whole.

A representation can help you divide a whole number by a unit fraction.

Work Together

Joey has a 5-foot board. He cuts the board into pieces that are each $\frac{1}{3}$ foot long. How many $\frac{1}{3}$ -foot boards will Joey have? Use the number line to help you solve.



Joey will have $15\frac{1}{3}$ -foot boards.

On My Own

Name _____

What is the quotient? Use a representation to solve. **Check students' drawings.**

1. $6 \div \frac{1}{3} = \underline{18}$

2. $9 \div \frac{1}{4} = \underline{36}$

3. $7 \div \frac{1}{8} = \underline{56}$

4. $5 \div \frac{1}{5} = \underline{25}$

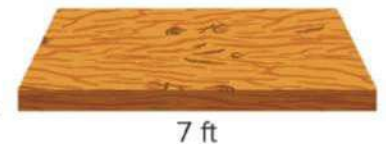
5. $4 \div \frac{1}{2} = \underline{8}$

6. $2 \div \frac{1}{9} = \underline{18}$

7. $4 \div \frac{1}{6} = \underline{24}$

8. $3 \div \frac{1}{10} = \underline{30}$

9. Jamal cuts the board into pieces that are each $\frac{1}{2}$ foot long. How many pieces does he have?



14 pieces

- 10. Error Analysis** Kevin has a 5 feet length of wrapping paper. He uses a $\frac{1}{3}$ foot length of wrapping paper for each present. He writes an equation to help him determine how many presents he can wrap using all of the paper. Is Kevin correct? Explain your thinking. **No, Kevin multiplied instead of divided. He can wrap 15 presents.**

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

- 11.** Mrs. Lopez has 2 large pizzas for her class to share. Each slice is $\frac{1}{8}$ of the pizza. How many slices of pizza does Mrs. Lopez have? **16 slices; Check students' work**

- 12.** A house painter pours the paint from this 5-gallon can into smaller cans that each hold $\frac{1}{2}$ gallon. How many small cans will he fill? Use a fraction model to justify your answer. **10 small cans; Check students' work**



- 13.** A baker has 4 pounds of flour. She divides it evenly into bags that hold $\frac{1}{3}$ pound each. Show how many bags the baker can fill using a fraction model. **12 bags; Check students' work**

- 14. Extend Your Thinking** Find a whole number and unit fraction whose quotient is 24.

Sample answer: $8 \div \frac{1}{3} = 24$

Reflect

How does using representations help you understand division of a whole number by a unit fraction?

Answers may vary.

Math is... Mindset

How did you use behaviors that show respect towards someone?

Learn

A serving size of almonds is $\frac{1}{4}$ cup.

How many servings are in this bag of almonds?

A division equation represents the problem.



You can use multiplication to determine how many one-fourths are in 10.

There are 4 one-fourths in each whole and 10×4 , or 40 one-fourths, in 10 wholes.

$$10 \div \frac{1}{4} = 40$$

There are 40 servings in the bag of almonds.



Use multiplication to check the answer.

$$40 \times \frac{1}{4} = \frac{40}{4} = 10$$

The calculated quotient is correct.

Math is... Precision

What is the difference between checking an answer and assessing its reasonableness?

You can use the relationship between multiplication and division to divide a whole number by a unit fraction. You can check the answer using a related multiplication equation.

Work Together

Mika wrote $15 \div \frac{1}{3} = 5$. How can you help Mika understand dividing by unit fractions?

Sample answer: There are 3 thirds in each whole; so $15 \div \frac{1}{3}$ is the same as $15 \times 3 = 45$. The quotient is 45, not 5.

On My Own

Name _____

What is the quotient?

1. $3 \div \frac{1}{5} = \underline{15}$

2. $6 \div \frac{1}{3} = \underline{18}$

3. $4 \div \frac{1}{4} = \underline{16}$

4. $7 \div \frac{1}{2} = \underline{14}$

5. $12 \div \frac{1}{3} = \underline{36}$

6. $9 \div \frac{1}{5} = \underline{45}$

7. $6 \div \frac{1}{6} = \underline{36}$

8. $10 \div \frac{1}{10} = \underline{100}$

9. $8 \div \frac{1}{7} = \underline{56}$

10. Keri is making trail mix that contains $\frac{1}{3}$ cup of sunflower seeds per serving. How many servings can she make with this bag?

6 servings



11. A clock chimes every $\frac{1}{4}$ hour. How many times will the clock chime in 6 hours?

24 times

12. Mia hiked 4 miles. There were trail markers every $\frac{1}{10}$ mile.
How many trail markers did Mia see during her hike?

40 markers

13. **STEM Connection** Poppy is visiting a park that is 15 acres. The park is divided into sections that are each $\frac{1}{3}$ acre. How many sections does the park have?

$$15 \div \frac{1}{3} = 45$$



14. Jaxon has 10 gallons of punch. He pours the punch into pitchers that each hold $\frac{1}{2}$ gallon. How many pitchers does Jaxon use?

20 pitchers

15. **Extend Your Thinking** When a whole number is divided by a fraction that is less than 1, will the quotient always be greater than the whole number? Explain why or why not.

Yes. Sample answer: The whole number is being divided into more parts, so the quotient will be greater.

Reflect

How does using the relationship between multiplication and division help you divide whole numbers by fractions?

Answers may vary.

Math is... Mindset

How have you organized your work to be successful?

Learn

A farmer divides $\frac{1}{5}$ acre into 3 equal sections to plant vegetables.

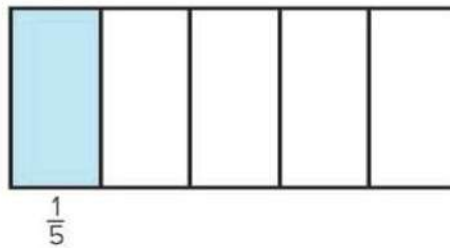
What fraction of an acre is each section?

A division equation represents the problem.

You can use a fraction model to help you solve the equation.

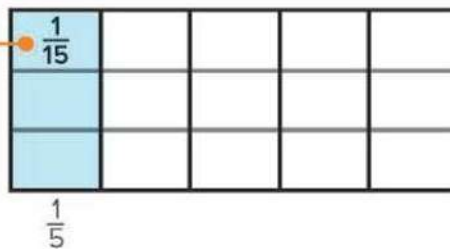
$$\frac{1}{5} \div 3 = a$$

Represent $\frac{1}{5}$ of a whole.



Partition the $\frac{1}{5}$ into 3 equal sections.

Each equal section is $\frac{1}{15}$ of the whole.



$$\frac{1}{5} \div 3 = \frac{1}{15}$$

Each section will be $\frac{1}{15}$ acre.

Math is... Connections

How is representing a fraction of a fraction similar to representing a fraction of a whole?

Work Together

Peter has $\frac{1}{4}$ gallon of water. He equally shares the water between his 2 dogs. How much water will each dog get?

$\frac{1}{8}$ gallon

On My Own

Name _____

What is the quotient? Use a representation to solve.

1. $\frac{1}{3} \div 4 =$ _____

- A. $\frac{1}{12}$
- B. $\frac{4}{3}$
- C. $\frac{1}{16}$
- D. $\frac{1}{7}$

2. $\frac{1}{2} \div 9 =$ _____

- A. $\frac{1}{11}$
- B. $\frac{9}{2}$
- C. $\frac{1}{18}$
- D. $\frac{1}{20}$

3. $\frac{1}{8} \div 3 =$ $\frac{1}{24}$

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

5. $\frac{1}{5} \div 5 =$ $\frac{1}{25}$

6. $\frac{1}{3} \div 2 =$ $\frac{1}{6}$

-
7. Juanita shares the mixed nuts equally among herself and 3 friends. What fraction of a pound of nuts does each person receive?

$\frac{1}{16}$ pound



8. Raymond has $\frac{1}{3}$ gallon of water. He shares the water equally among his 3 hamsters. How much water will each hamster get?

$\frac{1}{9}$ gallon

9. A baker divides $\frac{1}{2}$ pound of wheat flour equally for 3 loaves of bread. What fraction of a pound is in each loaf?

$\frac{1}{6}$ pound

10. **STEM Connection** Antonio is trying to determine the speed of his robot before his next competition. He measures that the robot moves $\frac{1}{2}$ foot in 5 seconds. How far does his robot move each second?

$\frac{1}{10}$ foot



11. **Extend Your Thinking** How is dividing unit fractions by whole numbers similar to dividing whole numbers by unit fractions? How is it different? **Sample answer: They are similar because both involve breaking up a whole into smaller pieces; because we start with a dividend that is a unit fraction, the quotient is less than the dividend instead of greater.**

Reflect

How can a representation help you divide a unit fraction by a whole number?

Answers will vary.

Math is... Mindset

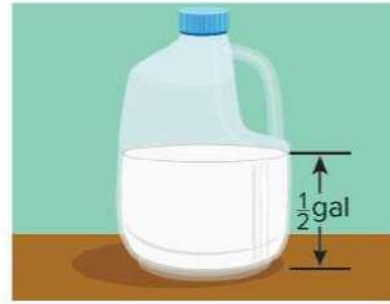
What consequences were there for your decisions?

Learn

Ms. Myers pours an equal amount of milk in each of 6 cups.

If she pours all of the milk, how can you determine what fraction of a gallon is in each cup?

A division equation can represent the problem.



You can write the division equation as a multiplication equation.

$$c = \frac{1}{2} \div 6$$

$$c = \frac{1}{2} \times \frac{1}{6}$$

$$c = \frac{1}{12}$$

There is $\frac{1}{12}$ gallon in each of the 6 cups.

Dividing by 6 is the same as multiplying by $\frac{1}{6}$.

Math is... Structure

If an equation is true, why are all the equations related to it true?

Use multiplication to check the answer.

$$\frac{1}{12} \times 6 = \frac{6}{12} = \frac{1}{2}$$

The calculated quotient is correct.

Division of a unit fraction by a non-zero whole number can be rewritten as multiplication by a unit fraction.

Work Together

Explain why $\frac{1}{5} \div 3 = \frac{1}{15}$.

because $\frac{1}{5} \times \frac{1}{3} = \frac{1}{15}$

On My Own

Name _____

Is the quotient correct or incorrect? How do you know?

1. $\frac{1}{2} \div 3 = \frac{1}{6}$

Correct. Sample answer:
 $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

2. $\frac{1}{4} \div 2 = \frac{1}{2}$

Incorrect. Sample answer:
 $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

3. $\frac{1}{3} \div 6 = \frac{1}{9}$

Incorrect. Sample answer:
 $\frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$

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

Correct. Sample answer:
 $\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$

What is the quotient?

5. $\frac{1}{5} \div 5 = \underline{\frac{1}{25}}$

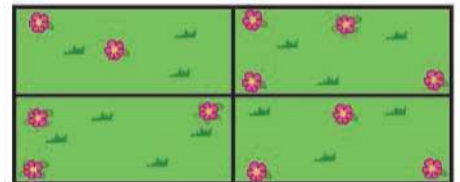
6. $\frac{1}{7} \div 2 = \underline{\frac{1}{14}}$

7. $\frac{1}{8} \div 10 = \underline{\frac{1}{80}}$

8. $\frac{1}{9} \div 3 = \underline{\frac{1}{27}}$

9. A garden has an area of $\frac{1}{10}$ acre. What fraction of an acre is each of the 4 sections?

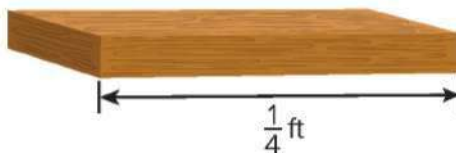
$\frac{1}{40}$ acre



- 10. Error Analysis** Peter buys $\frac{1}{4}$ pound of ham. Peter says that if he makes 2 ham sandwiches, each will have $\frac{1}{2}$ pound of ham. Is Peter correct? Explain why or why not.

No; Sample answer: Peter is not correct. He divided 4 by 2 instead of multiplying $\frac{1}{2} \times \frac{1}{4}$, which is $\frac{1}{8}$.

- 11.** Theo cuts this board into 4 equal sections. What is the length of each section?



$\frac{1}{16}$ ft

- 12.** Sasha spends $\frac{1}{2}$ of each school day in math class, science class, and history class. If the time spent in each class is the same, what fraction of the school day does Sasha spend in math class?

$\frac{1}{6}$ of the school day

- 13. Extend Your Thinking** When a unit fraction is divided by a non-zero whole number, will the quotient always be less than the unit fraction? Explain why or why not.

Yes, the fraction is being divided into smaller pieces, so the quotient will be less than the unit fraction.

Reflect

How did you think like a mathematician today?

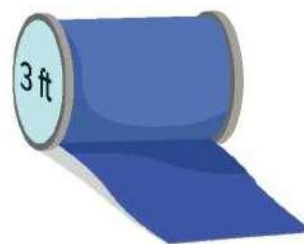
Answers may vary.

Math is... Mindset

What strengths did you rely on to be successful today?

Learn

Elizabeth uses all of the ribbon to decorate 6 boxes so that 4 of the faces of the boxes have the same amount of ribbon.



How long will the ribbon on each face be?

You can use strategies you know to solve the problem.

You can write and solve an equation to determine how much ribbon she will use for each box.

$$3 \div 6 = b$$

$$3 \div 6 = \frac{3}{6} = \frac{1}{2}$$

She will use $\frac{1}{2}$ foot of ribbon on each box.

Math is... Exploring

Explain another way you could have solved $3 \div 6 = b$.

Then, you can write an equation to determine the length of the ribbon on each face.

$$\frac{1}{2} \div 4 = r$$

$$\frac{1}{2} \div 4 = \frac{1}{8}$$

Elizabeth will use $\frac{1}{8}$ foot of ribbon on each face.

You can use known strategies to solve problems involving division of unit fractions.

Work Together

Martha has 5 muffins. To how many friends can she give $\frac{1}{4}$ of a muffin? **20 friends**

On My Own

Name _____

1. Sonya is making muffins. The recipe uses $\frac{1}{2}$ cup of flour and makes 12 mini muffins. How many cups of flour should Sonya use to make 6 muffins?

A. $\frac{1}{24}$ cup **B.** $\frac{1}{4}$ cup C. $\frac{1}{6}$ cup D. $\frac{1}{12}$ cup

2. **STEM Connection** Saffron has 4 cups of chocolate chips. She has a muffin recipe that calls for $\frac{1}{8}$ cup of chocolate chips per muffin. How many muffins can Saffron make?

32 muffins



3. Mr. Kline is making vegetable soup. His recipe makes 12 servings and uses $\frac{1}{3}$ pound of peas. How many pounds of peas does he need to make 6 servings?

A. $\frac{1}{36}$ pound **B.** $\frac{1}{6}$ pound C. $\frac{1}{4}$ pound D. 4 pounds

4. Ms. Jorge is dividing 4 pounds of gardening soil equally for 5 potted plants. How many pounds of soil will be in each pot?

$\frac{4}{5}$ pound

5. A zoo has 5 pounds of fruit and 3 pounds of lettuce to divide equally among 3 gorillas. How many total pounds of fruit and lettuce will each gorilla get?

$\frac{5}{3}$ pounds fruit and 1 pound lettuce

6. A relay race is $\frac{1}{2}$ mile long. How far does each person run if there are 3 members on the team? **$\frac{1}{6}$ mile**

7. Shaun is making 3 bags of trail mix. He has $\frac{1}{5}$ pound of dried cranberries to divide equally among the bags. How many pounds of dried cranberries will be in each bag?

A. $\frac{1}{15}$ pound **B.** $\frac{3}{5}$ pound **C.** $\frac{1}{3}$ pound **D.** 15 pounds

8. Lucy brings 4 cakes to the bake sale. Each piece of cake is $\frac{1}{6}$ of the whole. How many pieces of cake does she have? Write and solve the equation.

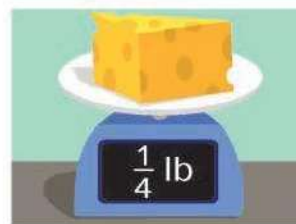
$$4 \div \frac{1}{6} = 24 \text{ pieces}$$

9. Mike made 60 cookies. He divided the cookies equally among his 8 friends and kept the rest for himself. How many cookies did Mike give his friends, and how many did he keep?

He gave 7 cookies to each friend and kept 4 to himself.

10. Ingrid buys this piece of cheese. She uses equal amounts of it to make 3 sandwiches. How much cheese is on each sandwich?

$$\frac{1}{12} \text{ pound}$$



11. **Extend Your Thinking** Write a division word problem that involves a unit fraction. Then, solve it. **Check students' work.**

Reflect

What strategy do you like to use to solve real-world problems involving the division of fractions? Explain your answer.

Answers may vary.

Math is... Mindset

How have you shown that you were listening attentively?

Unit Review

 Name _____

Vocabulary Review

Choose the correct word(s) to complete each sentence.

denominator	numerator	unit fraction
dividend	quotient	unknown
divisor	remainder	

1. A dividend represents the amount to be shared equally. (Lesson 11-2)
2. A unit fraction has a 1 as the numerator. (Lesson 11-3)
3. In a fraction that represents a quotient, the denominator is the same as the divisor. (Lesson 11-1)
4. A quotient of a division equation can be represented as a fraction or mixed number. (Lesson 11-1)
5. In a fraction that represents a quotient, the numerator is the same as the dividend. (Lesson 11-1)
6. The number that you are looking for when you solve an equation is called the unknown. (Lesson 11-7)
7. The denominator of a mixed number can represent a divisor. (Lesson 11-1)
8. When an improper fraction is rewritten as a mixed number the remainder is the numerator in the fraction. (Lesson 11-2)

Review

9. Shaylin has 3 pounds of yogurt. She shares the yogurt equally with 3 of her friends. What is the weight of the yogurt Shaylin and each of her friends will receive? Write a division equation that represents the problem. Then, write the answer. (Lesson 11-2)

$$3 \div 4 = \frac{3}{4}; \frac{3}{4} \text{ pound}$$

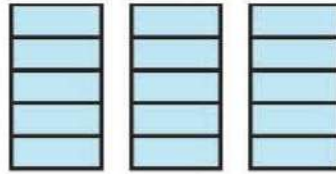
10. A rancher has 7 pounds of hay. He divides it equally into 3 troughs. How many pounds of hay does the rancher pour in each trough? Use a drawing to justify your solution. (Lesson 11-1)

$$\frac{7}{3} \text{ pounds; Check students' drawings.}$$

11. The guitar teacher received a box of 200 guitar picks. She wants to share the guitar picks equally among her 16 students. How many guitar picks does each student receive? (Lesson 11-2)

Each student will receive 12 guitar picks.

12. Which equation can match the model? (Lesson 11-3)



- A. $5 \div 3 = n$
B. $3 \div \frac{1}{5} = n$
C. $5 \div \frac{1}{3} = n$
D. $3 \div 5 = n$
13. Jason has 9 yards of wire to make necklaces. He uses $\frac{1}{3}$ yard to make each necklace. How many necklaces can Jason make? (Lesson 11-4)

27 necklaces

14. Ciera made 12 pints of fruit punch. She is going to put $\frac{1}{2}$ pint in each glass. How many glasses can Ciera fill? Write a division equation that represents the problem. Then, write the answer. (Lesson 11-4)

$$12 \div \frac{1}{2} = 24; 24 \text{ glasses}$$

15. Which equation can be used to check the quotient of the division equation shown? (Lesson 11-4)

$$16 \div \frac{1}{4} = n$$

A. $4 \times \frac{1}{16} = \frac{1}{4}$

B. $4 \times 4 = 16$

C. $16 \times \frac{1}{4} = 4$

D. $64 \times \frac{1}{4} = 16$

16. Which expression has a whole-number quotient? (Lesson 11-4)

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

B. $9 \div 8$

C. $8 \div 9$

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

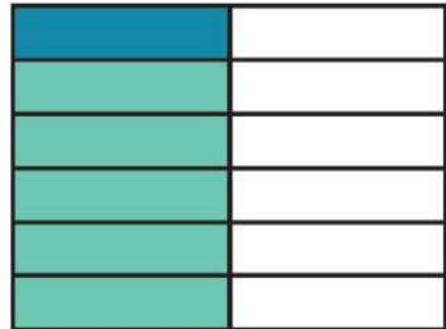
17. How many unit fractions of $\frac{1}{10}$ are in 100? (Lesson 11-4) **1,000**

18. Omar makes $\frac{1}{3}$ pound of fruit salad for a dinner party. He is going to divide the fruit salad into 6 equal servings. What fraction of a pound is one serving of fruit salad? Write a division equation that represents the problem.

Then, write the answer. (Lesson 11-6)

$$\frac{1}{3} \div 6 = \frac{1}{18}; \frac{1}{18} \text{ lb}$$

19. Which division equation does the area model represent? (Lesson 11-2)



A. $\frac{1}{2} \div 12 = n$

B. $12 \div \frac{1}{2} = n$

C. $\frac{1}{2} \div 6 = n$

D. $6 \div \frac{1}{2} = n$

20. Which expression has a quotient that is less than the dividend and less than the divisor? (Lesson 11-5)

A. $4 \div \frac{1}{8}$

B. $32 \div 4$

C. $8 \div \frac{1}{4}$

D. $\frac{1}{8} \div 4$

21. Which equation can be used to check the quotient of the division equation? (Lesson 11-5)

$$\frac{1}{4} \div 6 = n$$

A. $24 \div \frac{1}{6} = 4$

B. $\frac{1}{24} \times 6 = \frac{1}{4}$

C. $4 \times 6 = 24$

D. $4 \times \frac{1}{6} = \frac{4}{6}$