

Lesson 8.4

Name _____

Fraction and Whole-Number Division

COMMON CORE STANDARD CC.5.NF.7c

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Write a related multiplication sentence to solve.

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

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

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

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

$$\underline{3 \times 2 = 6}$$

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

$$\underline{2 \times 8 = 16}$$

$$\underline{\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}}$$

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

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

$$7. \ \frac{1}{4} \div 6$$

$$8. \ 6 \div \frac{1}{5}$$

$$\underline{5 \times 4 = 20}$$

$$\underline{\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}}$$

$$\underline{\frac{1}{4} \times \frac{1}{6} = \frac{1}{24}}$$

$$\underline{6 \times 5 = 30}$$

$$9. \ \frac{1}{5} \div 5$$

$$10. \ 4 \div \frac{1}{8}$$

$$11. \ \frac{1}{3} \div 7$$

$$12. \ 9 \div \frac{1}{2}$$

$$\underline{\frac{1}{5} \times \frac{1}{5} = \frac{1}{25}}$$

$$\underline{4 \times 8 = 32}$$

$$\underline{\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}}$$

$$\underline{9 \times 2 = 18}$$

Problem Solving



13. Isaac has a piece of rope that is 5 yards long. Into how many $\frac{1}{2}$ -yard pieces of rope can Isaac cut the rope?

10 one-half-yard pieces

14. Two friends share $\frac{1}{2}$ of a pineapple equally. What fraction of a whole pineapple does each friend get?

$\frac{1}{4}$ of the pineapple

Lesson Check (CC.5.NF.7c)

- Sean divides 8 cups of granola into $\frac{1}{4}$ -cup servings. How many servings of granola does he have?

(A) 32

(B) 16

(C) 2

(D) $\frac{1}{2}$
- Brandy solved $\frac{1}{6} \div 5$ by using a related multiplication expression. Which multiplication expression did she use?

(A) 6×5

(B) $6 \times \frac{1}{5}$

(C) $\frac{1}{6} \times 5$

(D) $\frac{1}{6} \times \frac{1}{5}$

Spiral Review (CC.5.NF.2, CC.5.NF.3, CC.5.NF.4a, CC.5.NF.7b)

- Nine friends share 12 pounds of pecans equally. How many pounds of pecans does each friend get? (Lesson 8.3)

(A) $\frac{3}{4}$ pound

(B) $1\frac{1}{3}$ pounds

(C) $1\frac{1}{2}$ pounds

(D) $1\frac{2}{3}$ pounds
- A scientist has $\frac{2}{3}$ liter of solution. He uses $\frac{1}{2}$ of the solution for an experiment. How much solution does the scientist use for the experiment? (Lesson 7.6)

(A) $\frac{1}{6}$ liter

(B) $\frac{1}{4}$ liter

(C) $\frac{1}{3}$ liter

(D) $\frac{1}{2}$ liter
- Naomi needs 2 cups of sugar for a cake she is baking. She only has a $\frac{1}{4}$ -cup measuring cup. How many times will Naomi need to fill the measuring cup to get 2 cups of sugar? (Lesson 8.2)

(A) 2

(B) 4

(C) 6

(D) 8
- Michaela caught 3 fish, which weigh a total of $19\frac{1}{2}$ pounds. One fish weighs $7\frac{5}{8}$ pounds and another weighs $5\frac{3}{4}$ pounds. How much does the third fish weigh? (Lesson 6.9)

(A) $6\frac{1}{8}$ pounds

(B) $6\frac{5}{8}$ pounds

(C) $7\frac{1}{8}$ pounds

(D) $7\frac{5}{8}$ pounds