



# MULTIPLYING AND DIVIDING FRACTIONS

Date: \_\_\_\_\_

Name: \_\_\_\_\_


Class: \_\_\_\_\_

1 What is the multiplicative inverse of  $\frac{1}{4}$ ?

- A  $\frac{1}{8}$
- B  $\frac{8}{1}$
- C 4
- D  $\frac{1}{2}$

2 Which of the following is a step in multiplying  $\frac{3}{4}$  by  $\frac{3}{5}$ ?

- A Adding 3 and 3
- B Finding the lowest common denominator of 4 and 5
- C Multiplying 3 and 3
- D Multiplying 3 and 5

3  Two-thirds of Tim's class has cupcakes. One half of the cupcakes have chocolate frosting. What fraction of students have cupcakes with chocolate frosting?

- A  $\frac{1}{6}$
- B  $\frac{1}{3}$
- C  $\frac{1}{2}$
- D  $\frac{1}{4}$

4  $\frac{1}{5}$  multiplied by what number will result in a product of  $\frac{1}{10}$ ?

- A  $\frac{1}{2}$
- B 2
- C  $\frac{1}{5}$
- D 5

5  $\frac{1}{5}$  divided by what number will result in a quotient of 2?

- A 10
- B  $\frac{1}{10}$
- C 5
- D  $\frac{1}{5}$

6  $\frac{2}{5}$  of the TV shows Moby watches are police shows, and  $\frac{1}{3}$  of them are set in New York City. What fraction of the shows Moby watches are police shows set in New York City?


- A  $\frac{3}{15}$
- B  $\frac{1}{15}$
- C  $\frac{1}{5}$
- D  $\frac{2}{15}$

7 What is  $\frac{3}{8}$  divided by  $\frac{4}{5}$ ?

- A  $\frac{7}{13}$
- B  $\frac{12}{40}$
- C  $\frac{15}{32}$
- D  $\frac{8}{12}$

8 Cassie is baking cookies from scratch. Her recipe calls for  $\frac{7}{8}$  of a cup of sugar per batch. If she is baking just  $\frac{2}{3}$  of a batch of cookies, how much sugar should she use?

- A  $\frac{2}{3}$  cup
- B  $\frac{9}{11}$  cup
- C  $\frac{7}{12}$  cup
- D  $\frac{16}{21}$  cup

9  If a turtle moves at  $1\frac{1}{3}$  kilometers per hour, how long would it take the turtle to travel 9 kilometers?

- A  $6\frac{3}{4}$  hours
- B 12 hours
- C 10 hours
- D  $8\frac{1}{2}$  hours

10 What is  $1\frac{3}{4}$  divided by 2?

- A  $\frac{7}{8}$
- B  $\frac{14}{4}$
- C  $\frac{1}{2}$
- D 3