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### **Pretest**

## Multiply whole numbers by fractions

#### Solve numbers 1 to 5.

- **1.** Which expression is the same as  $4 \times \frac{2}{3}$ ?
  - (A)  $\frac{4}{1} + \frac{4}{1}$

  - ©  $\frac{4}{2} + \frac{4}{2} + \frac{4}{2}$
  - $\bigcirc$   $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$
- 2. Which equation could not be used to find the total of the shaded areas?







- (B)  $3 \times \frac{1}{4} =$
- $\bigcirc$   $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} =$
- 3. What is the product of 5 and  $\frac{3}{4}$ ?

  (A)  $\frac{3}{20}$ (B)  $3\frac{3}{4}$

- **4.** Jake needs  $\frac{2}{3}$  of a cup of blueberries to make one blueberry muffin. If he makes five blueberry muffins, how many cups of blueberries does he need in total?

#### Solve numbers 1 to 16.

- 1. Breanna is planting a garden. Each row needs to be  $\frac{1}{2}$  a metre wide. She will plant 6 rows. How many metres wide will the 6 rows be?

  - © 3
  - D 12
- © 2023 Hanker Br **2.** Find the product.  $\frac{3}{8} \times 5\frac{1}{4} = \boxed{\phantom{0}}$ 
  - **(A)**

  - ①  $5\frac{5}{8}$

- **3.** Which expression is the same as  $9 \div \frac{4}{5}$ ?
- Alow Publishing Which expression is the same as  $\frac{9}{12} \div \frac{5}{6}$ ?

  - (a)  $\frac{12}{9} \times \frac{5}{6}$

- **5.** It takes Mr Kwan 4.75 minutes to mark each test. What equation can he use to find the number of minutes it will take him to mark 100 tests?
  - (A)  $4.75 \times 10 =$
  - ® 4.75 ÷ 10 =
  - © 4.75 × 100 =
  - ① 4.75 ÷ 100 =

- 6. Lyn is replacing the screens on her windows. A new screen costs \$11.89. She needs 8 new screens. How much will it cost Lyn to replace her screens?
  - A \$95.12
  - B \$96.00
  - © \$120.00
  - © \$951.20

**7.** What number goes in the box to make the equation true?

- A 17.8
- **B** 2.78
- © 2
- D 1.78

**8.** Which is the best pair of compatible numbers for estimating the quotient of 27.2 ÷ 2.9?

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- A 27 and 3
- B 28 and 4
- © 29 and 2
- ① 30 and 3

- **9.** A fruit basket contains 4 bananas and 5 apples. What is the ratio of bananas to all fruit?
  - A 4:9
  - B 4:5
  - © 9:4
  - © 9:5

- **10.** Which of the following is greater than 100%?
  - A 0.198
  - $\frac{9}{10}$
  - © 1.09
  - $\bigcirc \frac{9}{9}$

**11.** Adrienne set up the following proportion to find the time it takes her to read 1 page.

$$\frac{56 \text{ pages}}{28 \text{ min}} = \frac{1 \text{ page}}{x \text{ min}}$$

How much time does it take for her to read 1 page?

- O.5 minute
- B 2 minutes
- © 5 minutes
- © 28 minutes
- **12.** Gus is making picture frames. The table shows the relationship between the number of frames (*f*) and the amount of wood (*w*) in metres.

Frames (f)	Wood (w)
3	15
4	20
6	?
9	45

Gus needs to make 6 frames. How much wood does he need?

- A 35 m
- B 30 m
- © 26 m
- ② 25 m

**13.** Which operation must be used to solve for *z* in the following equation?

$$7.2z = 50.4$$

- A addition
- B subtraction
- © multiplication
- division

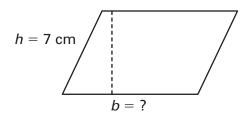
**14.** Valerie needs to solve the equation below.

$$15v = 75$$

How should she find the solution?

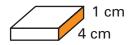
- Add 15 to both sides.
- B Divide both sides by 15.
- © Multiply both sides by 15.
- Subtract 15 from both sides.

**15.** If the area of the parallelogram is 59.5 cm<sup>2</sup>, what is the base?



- A 8.5 cm
- 8.7 cm
- © 52.5 cm
- © 66.5 cm

**16.** A match box has a width of 4 cm, a height of 1 cm and a volume of 16 cm<sup>3</sup>.



What is the length of the box?

- A 4 cm
- B 12 cm
- © 21 cm
- © 64 cm

### **Post test**

## Multiply whole numbers by fractions

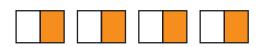
#### Solve numbers 1 to 5.

- **1.** Carol needs  $\frac{3}{4}$  of a cup of sugar for each batch of brownies. If she makes 3 batches of brownies, how many cups of sugar will she use in total?

  - $\mathbb{B} \frac{3}{4}$
  - ©  $1\frac{1}{2}$
  - $\bigcirc 2\frac{1}{4}$
- **2.** Solve.  $5 \times \frac{3}{8} =$ 
  - (A)  $1\frac{7}{8}$
  - B 1
  - © 8/15
  - ①  $\frac{3}{40}$
- **3.** Which expression is the same as  $2 \times \frac{3}{5}$ ?
  - (A)  $\frac{2}{1} + \frac{2}{1} + \frac{2}{1}$

  - ©  $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$
  - ①  $\frac{3}{5} + \frac{3}{5}$

**4.** Which equation **cannot** be used to find the total of the shaded areas?



- **5.** What is the product of 6 and  $\frac{2}{5}$ ?
  - (A)  $\frac{2}{11}$
  - (B)  $1\frac{3}{5}$
  - ©  $2\frac{2}{5}$
  - $\bigcirc 6\frac{2}{5}$