

# Multiplying Fractions and Whole Numbers

You can find the product of a fraction and a whole number.

Tran needs  $\frac{2}{3}$  yard of fabric to sew a pair of shorts. How many yards of fabric will Tran need to sew 6 pairs of shorts?

**Step 1.** Multiply the numerator by the whole number.

$$2 \times 6 = 12$$

**Step 2.** Place the product over the denominator. Simplify if possible.

$$\frac{12}{3} = 4 \text{ yards of fabric}$$

Remember: In word problems, “of” means “multiply.”

Example:  $\frac{3}{5}$  of 15 =  $\frac{3}{5} \times 15$

In questions **1–4**, find each product. Simplify if possible.

1.  $\frac{1}{3} \times 60 =$  \_\_\_\_\_

2.  $\frac{3}{4}$  of 32 = \_\_\_\_\_

3.  $\frac{7}{8} \times 40 =$  \_\_\_\_\_

4.  $\frac{2}{7}$  of 35 = \_\_\_\_\_

For questions **5–7**, use the table to the right.

5. What is  $\frac{1}{7}$  the speed of a cheetah? \_\_\_\_\_

6. What is  $\frac{1}{5}$  the speed of a cat? \_\_\_\_\_

7. What is  $\frac{1}{5}$  the speed of a jackal? \_\_\_\_\_

Animal	Speed (in mi/h)
Cat	30
Cheetah	70
Jackal	35