

Section 2.1 Exercises

Multiplying Fractions

Exercise 12

Multiply. Write the answer in simplest form.

$$\frac{5}{12} \times 10 = \square$$

Exercise 14

Multiply. Write the answer in simplest form.

$$\frac{3}{4} \times \frac{8}{15} = \square$$

Exercise 16

Multiply. Write the answer in simplest form.

$$\frac{3}{7} \times \frac{3}{7} = \square$$

Exercise 22

You exercise for $\frac{3}{4}$ of an hour. You jump rope for $\frac{1}{3}$ of that time. In simplest form, what fraction of the hour do you spend jumping rope?

of the hour is spent jumping rope.

Exercise 24

Without finding the product, complete the statement using $<$, $>$, or $=$.

$$\left(\frac{5}{8} \times \frac{22}{15}\right) \square \frac{5}{8}$$

Explain your reasoning.

Because $\frac{22}{15}$ is , 1, the product will be $\frac{5}{8}$.

greater than less than equal to

Exercise 26

Multiply. Write the answer in simplest form.

$$1\frac{1}{3} \times \frac{2}{3} = \square$$

Exercise 28

Multiply. Write the answer in simplest form.

$$2\frac{1}{2} \times \frac{4}{5} = \square$$

Exercise 38

Multiply. Write the answer in simplest form.

$$1\frac{1}{6} \times 6\frac{3}{4} = \square$$

Exercise 39

Multiply. Write the answer in simplest form.

$$2\frac{5}{12} \times 2\frac{2}{3} = \square$$

Exercise 40

Multiply. Write the answer in simplest form.

$$5\frac{5}{7} \times 3\frac{1}{8} = \square$$

Exercise 44

A vitamin C tablet contains $\frac{1}{40}$ of a gram of vitamin C. You take $1\frac{1}{2}$ tablets every day. In simplest form, how many grams of vitamin C do you take every day?

You take gram(s) of vitamin C every day.

Exercise 58

The cooking time for a ham is $\frac{2}{5}$ of an hour for each pound.

a. How long should you cook a ham that weighs $12\frac{3}{4}$ pounds?

It should cook for hour(s).

b. Dinner time is 4:45 P.M. What time should you start cooking the ham?

You should start cooking the ham at A.M.

Exercise 60

Find the prime factorization of 24.



$2 \cdot 3 \cdot 4$



$2^3 \cdot 3$



$2^2 \cdot 6$



24 is prime.

Exercise 64

A science experiment calls for $\frac{3}{4}$ cup of baking powder. You have $\frac{1}{3}$ cup of baking powder. How much more baking powder do you need?

A $\frac{1}{4}$ cup

B $\frac{5}{12}$ cup

C $\frac{4}{7}$ cup

D $1\frac{1}{12}$ cups