

Multiplying and Dividing Fractions



Overview of problems



Example Set: A

Find each product. Write your answer in simplest form.

$$\frac{3}{7} \cdot \frac{1}{2}$$

$$\frac{4}{10} \cdot \frac{8}{3}$$

$$4\frac{1}{2} \cdot 5$$

$$2\frac{3}{5} \cdot 1\frac{1}{3}$$



Example Set: B

Find each quotient. Write your answer in simplest form.

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

$$\frac{2}{9} \div \frac{2}{5}$$

$$6\frac{1}{5} \div \frac{3}{4}$$

$$2\frac{3}{7} \div 3\frac{1}{2}$$



Example Set: C

Find the product or quotient of the following problems.
Write your answer in simplest form.

$$\frac{3}{5} \cdot \frac{1}{4}$$

$$\frac{6}{10} \div \frac{2}{5}$$

$$\frac{3}{2} \cdot \frac{4}{6}$$

$$\frac{8}{9} \div \frac{5}{2}$$

$$2\frac{1}{4} \cdot 6\frac{3}{5}$$

$$7\frac{1}{3} \div 5\frac{2}{7}$$



Example Set: D

Evaluate the expression using the following values for a, b and c. Write your answer in simplest form.

$$a = \frac{2}{7} \quad b = \frac{1}{3} \quad c = \frac{4}{5}$$

$$ab$$

$$c \div b$$

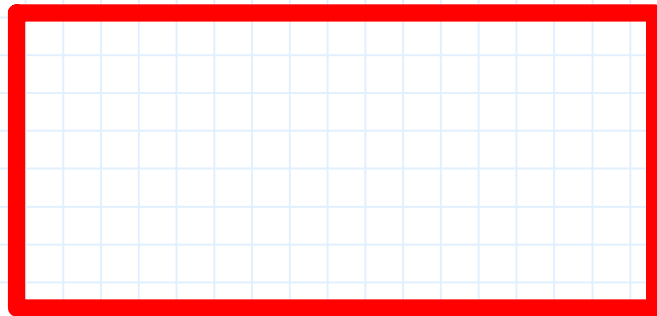
$$\frac{1}{2}c$$

$$\frac{2}{3}a$$



Example Set: E

To find the area of a rectangle multiply the length by the width. Determine the area of rectangle below. Write your answer in both fraction and decimal form.



$$8\frac{3}{5} \text{ ft.}$$

$$12\frac{1}{4} \text{ ft.}$$

Multiplying and Dividing Fractions



Overview of problems- KEY



Example Set: A

Find each product. Write your answer in simplest form.

$$\frac{3}{7} \cdot \frac{1}{2} = \frac{3}{14}$$

$$\frac{4}{10} \cdot \frac{8}{3} = \frac{16}{15}$$

$$4\frac{1}{2} \cdot 5 = \frac{45}{2}$$

$$2\frac{3}{5} \cdot 1\frac{1}{3} = \frac{52}{15}$$



Example Set: B

Find each quotient. Write your answer in simplest form.

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

$$\frac{2}{9} \div \frac{2}{5} = \frac{5}{9}$$

$$6\frac{1}{5} \div \frac{3}{4} = \frac{124}{15}$$

$$2\frac{3}{7} \div 3\frac{1}{2} = \frac{34}{49}$$



Example Set: C

Find the product or quotient of the following problems.
Write your answer in simplest form.

$$\frac{3}{5} \cdot \frac{1}{4} = \frac{3}{20}$$

$$\frac{6}{10} \div \frac{2}{5} = \frac{3}{2}$$

$$\frac{3}{2} \cdot \frac{4}{6} = 1$$

$$\frac{8}{9} \div \frac{5}{2} = \frac{16}{45}$$

$$2\frac{1}{4} \cdot 6\frac{3}{5} = \frac{297}{20}$$

$$7\frac{1}{3} \div 5\frac{2}{7} = \frac{154}{111}$$



Example Set: D

Evaluate the expression using the following values for a, b and c. Write your answer in simplest form.

$$a = \frac{2}{7} \quad b = \frac{1}{3} \quad c = \frac{4}{5}$$

$$ab = \frac{2}{21}$$

$$c \div b = \frac{12}{5}$$

$$\frac{1}{2}c = \frac{2}{5}$$

$$\frac{2}{3}a = \frac{4}{21}$$

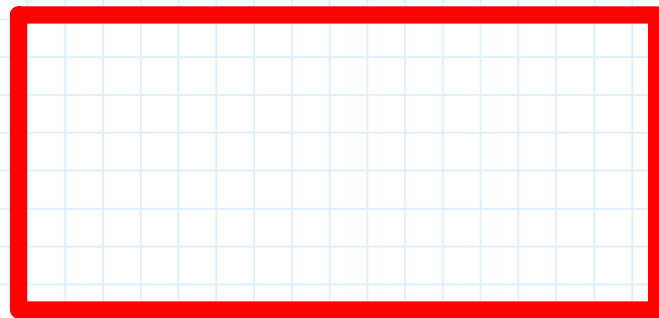


Example Set: E

To find the area of a rectangle multiply the length by the width. Determine the area of rectangle below. Write your answer in both fraction and decimal form.

$$\frac{2107 \text{ ft.}^2}{20}$$

$$105.35 \text{ ft.}^2$$



$$8\frac{3}{5} \text{ ft.}$$

$$12\frac{1}{4} \text{ ft.}$$