Topic-10: Extend Multiplication Concepts to Fractions

Question 1: Write each fraction as a **multiple** of a **unit fraction**:

a) $\frac{2}{10} = 2 \times \frac{\square}{\square}$

b) $\frac{5}{2} = 5 \times \frac{\square}{\square}$

c) $\frac{3}{8} = \square \times \frac{1}{8}$

d) $\frac{99}{100} = 99 \times \frac{1}{\square}$

Question 2: Multiply a whole number with fraction:

a) $2 \times \frac{3}{4} = \frac{\square}{4} = 1\frac{\square}{4}$

b) $7 \times \frac{2}{15} = \frac{\square}{\square}$

c) $8 \times \frac{2}{5} = \frac{\square}{5} = \square\frac{1}{5}$

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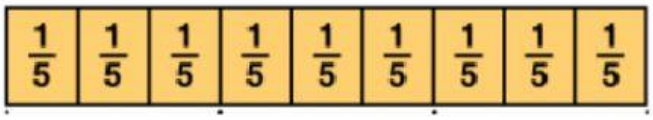
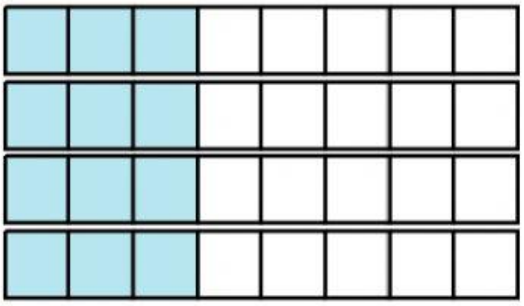
Question 3: Solve each of the following:

a)



Answer: b = $\square \times \frac{\square}{\square}$

b)



Answer: m = $\square \times \frac{\square}{\square}$

c)

$\frac{3}{10}$ $\frac{3}{10}$ $\frac{3}{10}$

Answer: m = $\square \times \frac{\square}{\square}$

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d)

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

e)

$$2 \times 3\frac{4}{10} = 6\frac{\square}{10}$$

f) Calculate the distance Chris swims if he swims $\frac{3}{50}$ mile each day for **10** days. **Write and solve multiplication equation.**

Answer:

$$m = \square \times \frac{\square}{\square} = \frac{\square}{\square} \text{ mile}$$

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g) Calculate the distance Laurens jogs if she jogs $\frac{1}{5}$ mile each day for **6** days.

Write and solve multiplication equation.

Answer:

$$j = \square \times \frac{\square}{\square} = \frac{\square}{\square} = \square\frac{1}{5} \text{ miles}$$

Solve each of the following time problem:

a)

5 hours ------ 25 minutes

+ 2 hours ------ 46 minutes

$\square$ hours $\square$ minutes

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b) 20 weeks = $\square$ days

x 7

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c) 648 months = $\square$ years

÷ 12

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