

Fractions as Division

Use tape diagrams to model fractions as division (word problems).

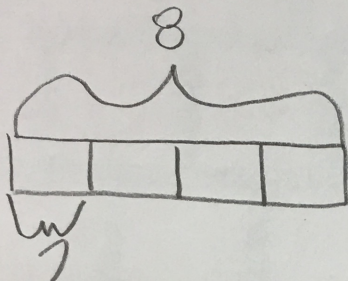
M4 L4

Don't forget to L.O.V.E. your word problems. LABELS, LABELS, LABELS!!!

Use the words to identify the dividend and the divisor.

1. Eight tons of gravel is equally divided between 4 dump trucks. How much gravel is in one dump truck?

TS: One dump truck has 2 tons of gravel.

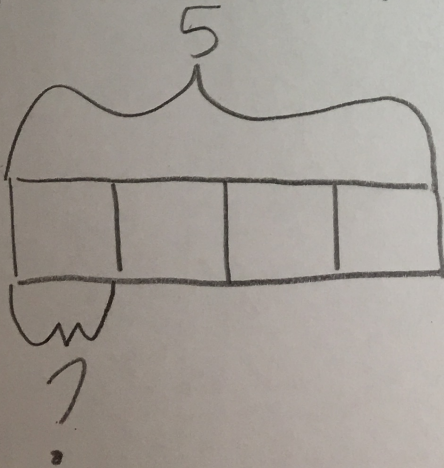


$$\begin{aligned} 4 \text{ units} &= 8 \\ 1 \text{ unit} &= 8 \div 4 \\ &= 2 \end{aligned}$$

$$\begin{array}{r} 2 \\ 4 \overline{) 8} \\ \underline{-8} \\ 0 \end{array} \quad \checkmark 4 \times 2 = 8$$

2. Five tons of gravel is equally divided between 4 dump trucks. How much gravel is in one dump truck?

TS: One dump truck has $1\frac{1}{4}$ tons of gravel.



$$\begin{aligned} 4 \text{ units} &= 5 \\ 1 \text{ unit} &= 5 \div 4 \\ &= \frac{5}{4} = 1\frac{1}{4} \end{aligned}$$

$$\begin{array}{r} 1\frac{1}{4} \\ 4 \overline{) 5} \\ \underline{-4} \\ 1 \end{array} \quad \begin{aligned} \checkmark 4 \times 1\frac{1}{4} &= \\ 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} + 1\frac{1}{4} &= \\ 4\frac{4}{4} &= 5 \end{aligned}$$

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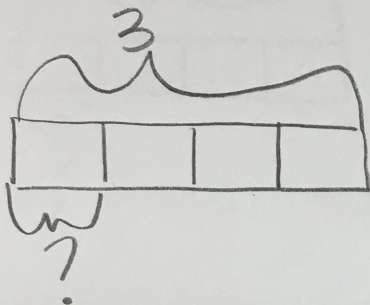
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3. A 3-meter ribbon is cut into 4 equal pieces to make flowers. What is the length of each piece?

TS: The length of each piece of ribbon is 3 m long.



$$\begin{aligned} 4 \text{ units} &= 3 \\ 1 \text{ unit} &= 3 \div 4 \\ &= \frac{3}{4} \end{aligned}$$

$$\sqrt{4 \times \frac{3}{4}}$$

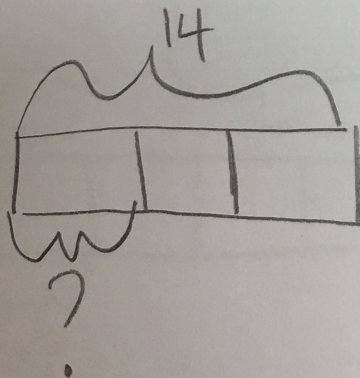
$$3 \div 4 = 4 \overline{) 3} \begin{array}{r} 0 \frac{3}{4} \\ - 0 \\ \hline 3 \end{array}$$

$$\begin{aligned} \frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} \\ \frac{12}{4} = 3 \end{aligned}$$

14 gallons of water is used to completely fill 3 fish tanks. If each tank

4. holds the same amount of water, how many gallons will each tank hold?

TS: Each tank holds 4 $\frac{2}{3}$ gallons.



$$\begin{aligned} 3 \text{ units} &= 14 \\ 1 \text{ unit} &= 14 \div 3 \end{aligned}$$

$$= \frac{14}{3} = 4\frac{2}{3}$$

$$\sqrt{3 \times 4\frac{2}{3}}$$

$$4\frac{2}{3} + 4\frac{2}{3} + 4\frac{2}{3}$$

$$3 \overline{) 14} \begin{array}{r} 4 \frac{2}{3} \\ - 12 \\ \hline 2 \end{array}$$

$$12 \frac{6}{3}$$

$$14$$