

Bellringers 10-11-2016

①

Liam is making chocolate chip cookies. The recipe calls for 1 cup of sugar for every 3 cups of flour. Liam has only 2 cups of flour.

- How much sugar should Liam use?
- Explain why your answer is correct.

$$\frac{1s}{3f} : \frac{1}{3} = \frac{x}{2}$$

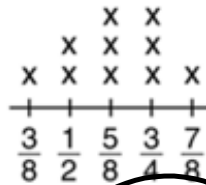
$$\frac{1s}{3} = \frac{2}{3}$$

$$x = \frac{2}{3} c.$$

②

Ngel's class placed 10 empty rain gauges on the playground Monday morning. The line plot below shows the number of inches of rainwater in each gauge after it rained Monday afternoon.

Number of Inches of Rainwater



What is the mean amount of rainwater per rain gauge, in inches, in the 10 rain gauges?

- A. $\frac{25}{80}$
- C. $\frac{51}{80}$
- B. $\frac{5}{8}$
- D. $\frac{37}{56}$
- E. $\frac{51}{8}$

$$\cancel{\frac{3}{8}} + \cancel{\frac{1}{2}} + \cancel{\frac{1}{2}} + \cancel{\frac{5}{8}} + \cancel{\frac{5}{8}} + \cancel{\frac{5}{8}} + \cancel{\frac{3}{4}} + \cancel{\frac{3}{4}} + \cancel{\frac{3}{4}} + \cancel{\frac{7}{8}}$$

$$1 + \frac{25}{8} + \frac{9}{4} = \frac{51}{8}$$

4.1: Ratio and Proportion

ratio - is a comparison of two numbers by division.

The ratio of a to b is a:b

$$2:4 \text{ as } 3:\underline{6}$$

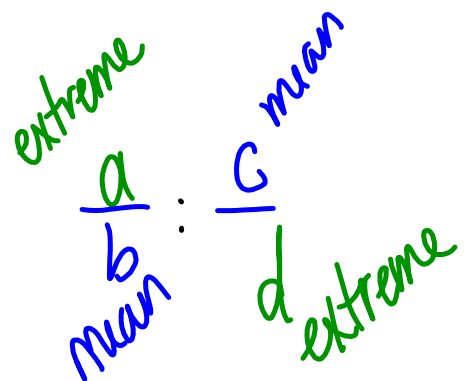
$$2:5 \text{ as } \underline{x}:11$$

ex.

~~$$\frac{2}{5} = \frac{x}{11}$$~~

$$\frac{22}{5} = \frac{5x}{5}$$

$$x = \frac{22}{5}$$



Examples

$$1.) \quad \frac{x}{4} = \frac{25}{12}$$

$$\frac{12x}{12} = \frac{100}{12}$$

$$x = \frac{100}{12} = \frac{50}{6} = \frac{25}{3}$$

②

~~$$\frac{x+3}{4} = \frac{7}{8}$$~~

$$8(x+3) = 28$$

$$8x+24 = 28$$

$$\begin{array}{r} 8x+24 = 28 \\ -24 \quad -24 \\ \hline \end{array}$$

$$\frac{8x}{8} = \frac{4}{8}$$

$$x = \frac{4}{8} = \frac{1}{2} = 0.5$$

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