

12.78409091

$$\frac{30 \text{ ft}}{1.6 \text{ sec}} \cdot \frac{1 \text{ mi}}{5,280 \text{ ft}} \cdot \frac{60 \text{ sec}}{1 \text{ min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}}$$

$$\frac{108000}{8448} = 12.77 \text{ mi/hr}$$

$$\frac{.025^{\text{days}}}{1} \cdot \frac{24 \text{ hr}}{1 \text{ day}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} \cdot \frac{60 \text{ sec}}{1 \text{ minute}} =$$

2160 seconds

$$\begin{array}{cccc}
 \frac{50m}{1sec} & \cdot & \frac{60sec}{1min} & \cdot & \frac{60min}{1hr} & \cdot & \frac{1Km}{1000m} \\
 \\
 180000 & & & & 180 & & Km/hr \\
 \hline
 1000 & & & & & &
 \end{array}$$

$$\frac{1200 \text{ oz}}{1} \cdot \frac{1 \text{ lb}}{16 \text{ oz}} \cdot \frac{1 \text{ t}}{2000 \text{ lbs}} = \frac{1200}{32000} = \frac{1}{26.67} \approx .0375 \text{ tons}$$

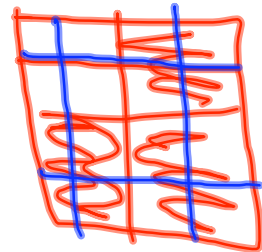
Proportional Reasoning

Ratio

1) $21:24 \rightarrow 21 \text{ out of } 24$ $3:4$

2) $\frac{21}{24} \rightarrow 21 \text{ to } 24$ $\frac{3}{4} = \frac{12}{16}$

3) $.875$ $\frac{1}{4} = \frac{4}{16}$ $.75$



$$\frac{21}{35} \propto \frac{x}{20}$$
$$\frac{21}{35} = \frac{12}{20}$$
$$\frac{420}{35} = \frac{35x}{35}$$
$$x = 12$$

$$\frac{20}{1} \times \frac{21}{35} = \frac{X}{20} \times \frac{20}{1}$$

$$\frac{420}{35} = X$$

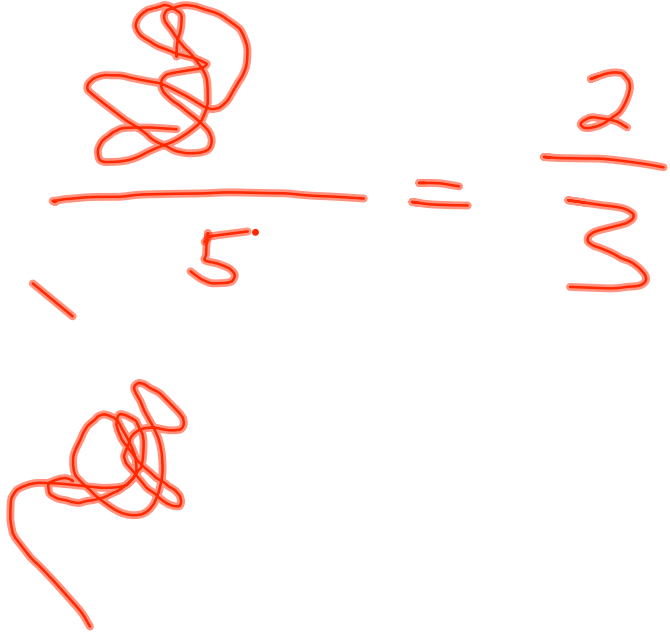
$$\frac{3}{x} = \frac{12}{20} \quad x = 5$$

$$\frac{x}{12} = \frac{132}{176} \quad x = 9$$

$$\begin{aligned} x \quad 3 & \quad \text{or} \\ \frac{3}{x} & = \frac{12}{20} \quad x \\ \text{so} \quad 3 & = \frac{12x}{20} \quad \text{so} \\ \frac{60}{12} & = \frac{12x}{12} \quad x = 5 \end{aligned}$$

$$\begin{aligned} \cancel{\frac{x}{1}} \quad \frac{3}{x} & = \frac{12}{20} \quad \cancel{\frac{x}{1}} \\ \frac{20}{1} \cdot 3 & = \frac{12x}{20} \cdot \frac{20}{1} \\ \frac{60}{12} & = \frac{12x}{12} \quad x = 5 \end{aligned}$$

$$\frac{\Delta}{3} = \frac{41}{5}$$



The image shows a handwritten red scribble at the top left, a horizontal line, the number 5, an equals sign, and another red scribble at the bottom left. To the right of the equals sign is the fraction $\frac{2}{3}$.

$$\frac{\text{scribble}}{5} = \frac{2}{3}$$

5.43 mean
5 Median
5 mode
7 range

} measures
of
central tendency

Averages

2 3 5 5 6 8 9

$$1) \frac{24}{40} = \frac{t}{30}$$

Find mean.
median, mode, range

{1, 5, 7, 3, 5, 9, 6, 8, 10}

$$2) \frac{49}{56} = \frac{\cancel{40}}{32}$$

{6, 1, 3, 9, 2, 7, 3, 4, 8, 8}

$$3) \frac{52}{91} = \frac{42}{\Delta}$$

$$4) \frac{7}{x} = \frac{100}{30}$$

$$5) \frac{6}{\cancel{100}} = \frac{62}{217}$$