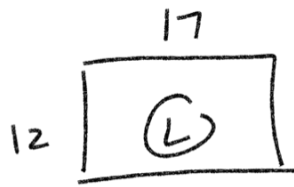
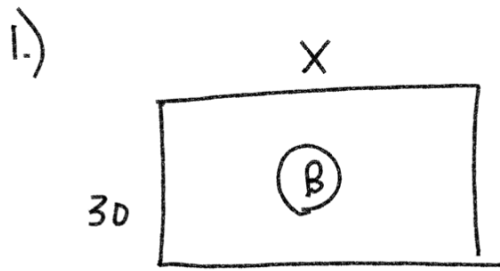


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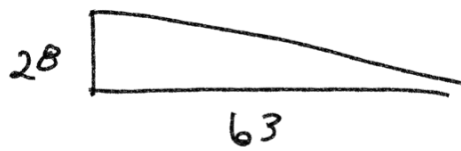
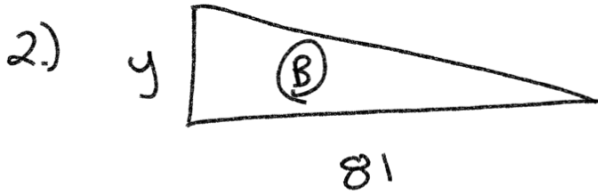


$$\frac{\text{Base}}{\text{Height}} = \frac{X}{30} \times \frac{17}{12}$$

$$12X = (17)(30)$$

$$X = 42.5$$

$$\frac{12X}{12} = \frac{510}{12}$$



$$\frac{\text{Base}}{\text{Height}} = \frac{81}{y} \times \frac{63}{28}$$

Big'n Lil'n

$$63y = (81)(28)$$

$$\frac{63y}{63} = \frac{2268}{63}$$

$$y = 36$$

Nate's end of the year celebration got... weird...

Injury	Number of Students
broken bone	12
head trauma	16
mental distress	38
emotional damage	10
stuffy nose	24
<hr/>	
total	100

a)  $P(\text{mental distress})$

$$\frac{38 \div 2}{100 \div 2} = \frac{19}{50}$$

b)  $P(\text{emotional damage or stuffy nose})$

$$\frac{10+24}{100} = \frac{34 \div 2}{100 \div 2} = \frac{17}{50}$$

c)  $P(\text{not head trauma})$

$$\frac{100-16}{100} = \frac{84 \div 4}{100 \div 4} = \frac{21}{25}$$

d)  $P(\text{had a good time})$   $\frac{0}{100}$

$$\frac{7}{10}$$

fraction  $\longrightarrow$  percent

$$\frac{7}{10} = \frac{X}{100}$$

$$\frac{700}{10} = \frac{10X}{10} \quad \boxed{X = 70\%}$$

per cent

for every 100

$$\frac{17}{25} = \frac{X}{100} \quad \boxed{68}$$

$$\frac{1700}{25} = \frac{25X}{25}$$

$$X = \frac{1700}{25} = \boxed{68\%}$$

Convert from a fraction to a percent.

$$\frac{3}{5} = 0.60 = \boxed{60\%}$$

$$\frac{3}{5} = \frac{X}{100}$$

$$\frac{3}{5}$$

$$\begin{array}{r} 6 \\ 5 \overline{) 3.0} \\ \underline{-30} \\ 0 \end{array}$$

$$\frac{5X = 300}{5 \quad 5}$$

$$\boxed{X = 60}$$

$$\frac{5}{8} \rightarrow 62.5\%$$

Division

$$\begin{array}{r} 62.5 \\ 8 \overline{) 500.0} \\ \underline{-48} \phantom{0} \\ 20 \phantom{0} \\ \underline{-16} \phantom{0} \\ 40 \phantom{0} \\ \underline{-40} \\ 0 \end{array}$$

$$62.5\%$$

Proportion

$$\frac{5}{8} = \frac{X}{100}$$

$$\frac{8X = 500}{8 \quad 8}$$

$$\boxed{X = 62.5\%}$$

What percent of 75 is 60?

X      \*      75      =      60

$$\frac{75X}{75} = \frac{60}{75}$$

$$X = 0.8 \quad *100 = \boxed{80\%}$$

What percent of 75 is 60?

$\frac{X}{100}$  \* 75 = 60

$$\frac{100}{75} \left( \frac{75X}{100} \right) = (60) \left( \frac{100}{75} \right)$$

$$X = \frac{6000}{75} = \boxed{80\%}$$

What percent of 50 is 60?

X      \*      50      =      60

$$\frac{50X}{50} = \frac{60}{50}$$

decimal  $\rightarrow$  percent  
 $\quad \quad \quad *100$

$$X = \frac{60}{50} = 1.2 * 100 = \boxed{120\%}$$

70% of 20 is what number?

↓ ↓ ↓ ↓ ↓

$$\frac{70}{100} * \frac{20}{1} = X$$

$$\frac{1400}{100} = X = \boxed{14}$$

30% of 360 is what number?

↓ ↓ ↓ ↓ ↓

$$\left\{ \frac{30}{100} * \frac{360}{1} \right\} = X$$

$$\frac{10800}{100} = X = \boxed{108}$$