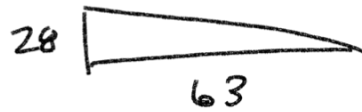
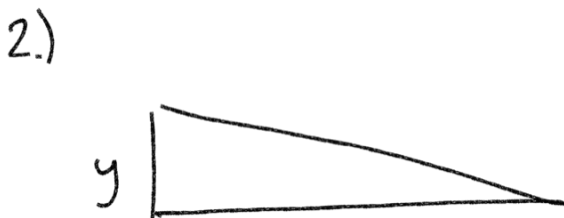


$$\frac{\text{Base}}{\text{Height}} = \frac{x}{30} = \frac{17}{12}$$

$$(30)(17) = 12x$$

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

$$\boxed{42.5 = x}$$



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

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

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

$$\boxed{36 = y}$$

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

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

a) P(mental distress)

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

b) P(emotional trauma or

stuffy nose)  $\frac{16+24}{100} = \frac{40}{100} = \frac{2}{5}$

c) P(not a head injury)

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

d) P(had a good time)  $\boxed{0}$

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

fraction  $\rightarrow$  percent

$$48\% = \frac{48}{100}$$

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

$$7(100) = 10X$$

$$\frac{700}{10} = \frac{10X}{10}$$

$$X = 70\%$$

per · cent  
↓ ↓  
for every 100

$$\frac{17}{25} = \frac{X}{100}$$

(68)

$$\frac{17(100)}{25} = \frac{25X}{25}$$

$$\frac{17(4)}{25} = X = 68$$

Convert from a fraction to a percent.

$$\frac{3}{5} = 0.6 = 60\%$$

\*100%

$$\frac{3}{5} = \frac{60}{100}$$

\*20

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

$$\frac{5}{8}$$

$$\frac{5}{8} = 0.625 = 62.5\%$$

$$8 \overline{) 5.000} \begin{array}{r} .625 \\ -48 \\ \hline 20 \\ -16 \\ \hline 40 \\ -40 \\ \hline 0 \end{array}$$

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

$$(100)5 = 8X$$

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

$$X = 62.5$$

What percent of 75 is 60  
↓ ↓ ↓ ↓  
X \* 75 = 60

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

$$X = \frac{60}{75} = 0.8 * 100 = 80\%$$

What percent of 75 is 60  
↓ ↓ ↓ ↓  
 $\frac{X}{100}$  \* 75 = 60

$$\frac{100}{75} \left( \frac{75X}{100} \right) = (60) \frac{100}{75}$$
$$\frac{6000}{75} = \boxed{80\%}$$

What percent of 50 is 60?

$$\frac{X}{100}$$

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$* 50 = 60$$

$$\frac{50X}{100 \div 50} = 60$$

$$X = 120\%$$

$$\frac{Z}{1} \left( \frac{X}{Z} \right) = (60) \frac{Z}{1}$$

20% of 20 is what number?

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$\frac{7}{10} * 20 = X$$

$$\frac{7 * 20}{10} = X = \frac{140}{10} = 14$$

30% of 360 is what number?

$$\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$$
$$\frac{30}{100} * 360 = X$$

$$\frac{30 * 360}{100} = 3 * 36 = 108$$

