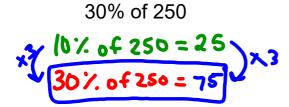
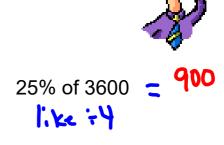
## Warm Up Grade 8

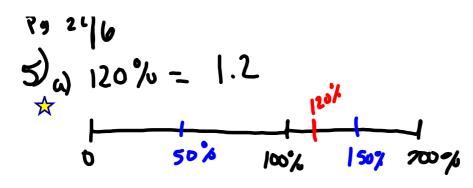
April 7

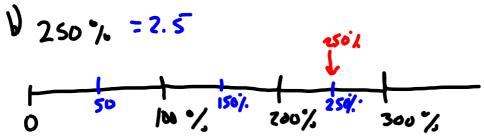
## **Use Mental Math**

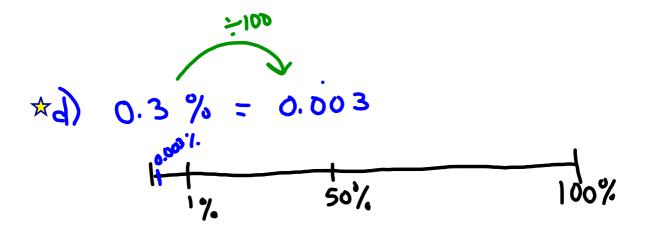


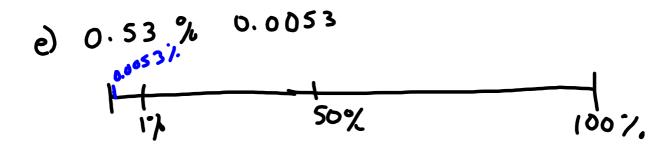


## Use a calculator for the following









#5,6,10, 11

$$\frac{170}{100}$$
  $\frac{17}{100}$   $\frac{170}{100} = \frac{17}{10} = \frac{17}{10}$ 

$$\Rightarrow b$$
) 3.3  $\frac{330\%}{100} = \frac{33}{10} = 3\frac{3}{10}$ 

$$\Rightarrow 0.0056 \qquad 0.56\% \qquad \frac{56}{10000} = \frac{28}{5000} = \frac{14}{2500} = \frac{7}{1250}$$

$$\frac{3}{3} = 1 = 100\%$$

iv) 
$$\frac{4}{3} = 1.\overline{3} = 133.3\%$$

$$v) = \frac{5}{3} = 1.\overline{6} = 166.\overline{6} \%$$

$$\frac{4}{3} = 2 = 200 \%$$

b) As the numerator increases by 1 the percent increases by 33.3%

iv) 
$$\frac{10}{3} = 3\frac{1}{3} = 3.\overline{3} = 333.\overline{3}\%$$

$$\sqrt[4]{\frac{1}{3}} = 3\frac{1}{3} = 3.5 = 366.6\%$$

$$\frac{12}{3} = 4 = 400\%$$

11) 
$$\approx$$
 i) 200 % 4 360  
 $<\sqrt{100}$  4 360 = 360  
 $<200$  6 4360 = 720

$$\Rightarrow \frac{111}{111}$$
 2% d 360 = 3.6  $\times \frac{1}{2}$  d 360 = 3.6  $\times \frac{1}{2}$  d 360 = 7.2

$$(1)$$
 0.2% d 360 = 3.6  
 $(2\% d) 360 = 3.6$   
 $(2\% d) 360 = 7.2$   
 $(2\% d) 360 = 7.2$   
 $(3.2\% d) 360 = 0.72$ 

b) The digit moves one place to the right each time you decrease you, percent by a factor up 10

c) 
$$2000\%$$
 d)  $360 = 720$ 

$$100\%$$
 d)  $360 = 360$ 

$$100\%$$
 d)  $360 = 360$ 

$$1000\%$$
 d)  $360 = 360$ 

$$1000\%$$
 d)  $360 = 7280$ 

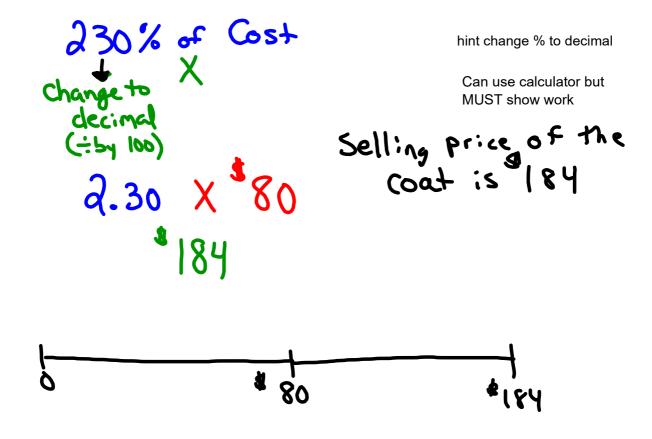
Percents greater than 100% are used by store owners to calculate the prices of items they sell.

A store has to make a profit; that is, to sell goods for more than the goods cost to buy.

A store manager buys merchandise from a supplier. The price the manager pays is called the *cost* price. The manager *marks up* the cost price to arrive at the *selling price* for the customer. The markup is the *profit*.

Cost price + Profit = Selling price

The cost price of a winter coat is \$80. The selling price of the coat is 230% of the cost price. What is the selling price of the coat? Illustrate the answer with a number line.



In 2004, the population of First Nations people living on reserves in Alberta

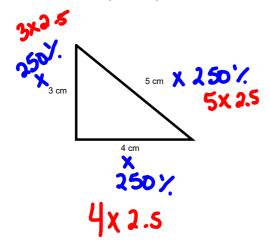
was 58 782.

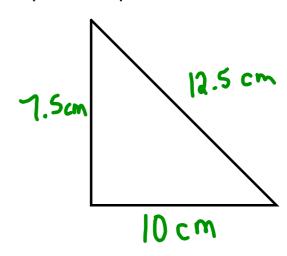
About 0.28% of these people belonged to the Mikisew Cree band.

- a) About how many people belonged to the Mikisew Cree band?
- b) Estimate to check the answer is reasonable.

About 165
people belong
to Mikisen
Cree band.

This shape represents 100%. Draw a shape that represents 250%.





At the movie theatre, 1550 people attended in one week. The next week the attendance increased by 125%.

a) How many people went to the movie theatre the second week?

b) Estimate to check your answer is reasonable.

125% of 1550

During the 2nd week 1938 people went to the mivies

1937.5

1938

People 1938

People 1937.5



Page 246 #7, 12a, Page 247 #15, 16bc, 17

Show all work

pg. 240 #16-19 pg. 245 #1,2,5,6,7