Warm Up Grade 8



Use Mental Math

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30% of 250

10% of 250 = 25

30% of 250 = 75

24% of 3600

20% of 3600 = 360

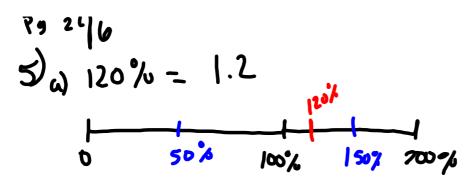
20% of 3600 = 720

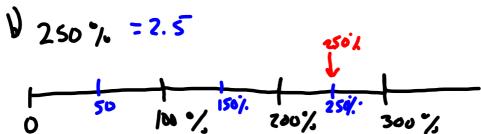
20% of 3600
```

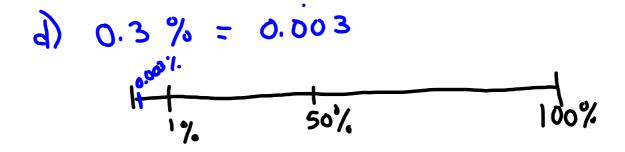
15% of 40

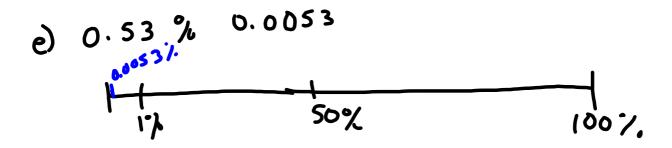
I change to decimal

$$5\%$$
 of 40
 5% of $40 = 4$
 5% of $40 = 2$
 15% of $40 = 6$









#5,6,10, 11

$$\omega = 1.7$$
 $\omega = 1.7$
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b)
$$3.3$$
 $\frac{330\%}{100} = \frac{33}{10} = 3\frac{3}{10}$

$$0.003 \qquad 0.3\% \qquad \frac{3}{1000} = \frac{28}{5000} = \frac{14}{2500} = \frac{7}{1250} = \frac{11}{1250} = \frac{7}{1250} = \frac{7}{1250}$$

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

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

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

$$v.) \frac{6}{3} = 2 = 200 \%$$

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)
$$ai$$
) $200\% 4360$
 $(200\% 4360 = 720)$

- ii) 20 % d 360 10 % d 360 = 36 x2(20% d 360 = 72
- 2 % d 360 = 3.6 x²(2% d 360 = 3.6)x²
- 1v) 0.2% & 360 x² (1% & 360 = 3.6) 2% & 360 = 7.2 = 10 0.2% & 360 = 0.72
- b) The digit moves one place to the right each time you decrease you, percent by a factor up 10
- c) $2000\% d_360 = 720$ $100\% d_360 = 340$ $100\% d_360 = 340$ $100\% d_360 = 3400$ $100\% d_360 = 7280$
- 1.) 0.02 % 4 360 2 % 6 360 = 7.2 from a box 1.02 % 4 360: 0.072

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

1150 > Sport

1667.50 > Bus

900. -> Sweakers or 500 > tshirt

500 -> Banquet

Pizza

ice creun
plaks/Napkins

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.



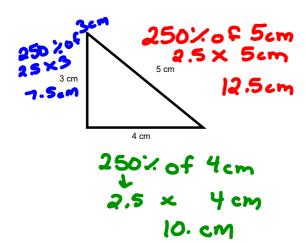
In 2004, the population of First Nations people living on reserves in Alberta

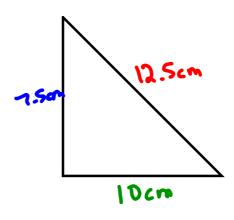
was 58 782.

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.

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

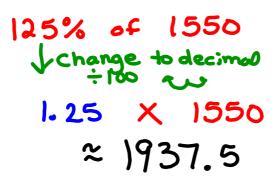




At the movie theatre, 1550 people attended in one week.

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.







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Show all work

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