

## Warm Up Grade 8 Marm Db Grade 8



## 1) Fill in the chart

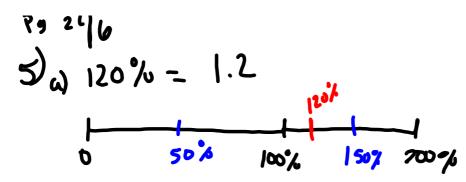
Percent	Decimal	Fraction
62.5% ×1	<u>∞</u> 0.625 ←	125
		200
	100 Place	value 46 - 23
46%	0.46	100 - 23 50
0.35 %	0.0035-	70000 2000
82 %	0. 82	82 = 41 50
340 %	3.4	34 = 17 10 = 5

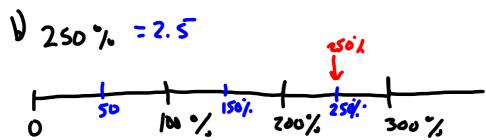
- 2) What is 12.4% as a fraction?
- 3) What is 0.47% as a decimal?

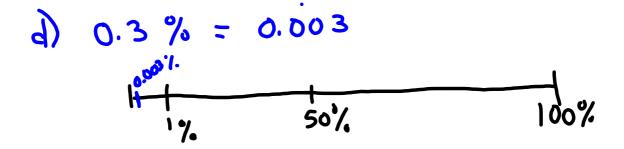
1.8 
$$\frac{18}{100} \stackrel{?}{?}_{?}^{2} = \frac{9}{5}$$

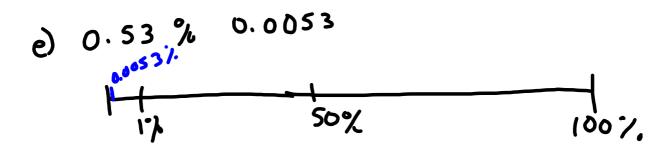
0.36  $\frac{36}{100} \stackrel{?}{?}_{?}^{2} = \frac{18}{35} \stackrel{?}{?}_{?}^{2} = \frac{9}{35}$ 

0.04  $\frac{4}{100} \stackrel{?}{?}_{?}^{2} = \frac{2}{50} \stackrel{?}{?}_{?}^{2} = \frac{1}{35}$ 









#5,6,10, 11

$$600 = 170\%$$
Record
 $170\%$ 
 $170\%$ 
 $170\%$ 
 $170\%$ 
 $170\%$ 
 $170\%$ 
 $170\%$ 

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

$$0.003 \qquad 0.3\% \qquad \frac{3}{1000} = 0.0056 \qquad 0.56\% \qquad \frac{56}{1000} = \frac{28}{5000} = \frac{14}{2500} = \frac{7}{1250}$$

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

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

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

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

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

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

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

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

- ii) 20 % d 360 10 % d 360 = 36) x2 20% d 360 = 72
- 2 % d 360 = 3.6 x<sup>2</sup>(2% d 360 = 3.6)x<sup>2</sup>
- 1v) 0.2% & 360 x<sup>2</sup> (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 to 10
- c)  $2000\% d_360 = 720$   $100\% d_360 = 340$   $100\% d_360 = 340$   $100\% d_360 = 3400$   $1000\% d_360 = 7200$
- 1.) 0.02 % 4 360 2% 6 360 = 7.2 from a box 1.) 100 0.02% 4 360 = 0.072

#### **Estimating and Mentally Calculating Percents**

There are several percents that you can figure out without a calculator.

```
100 % - 100% of a number is the number itself.

50% - You can easily find 50% of a number by dividing the number by 2.

Ex. 50% of 68 = 34

25% - You can easily find 25% of number by dividing the number by 4.

Ex. 25% of 64 = 16

10% - You can easily find 10% of a number by dividing the number by 10.

Ex. 10% of 678 = 67.8 (more de circle place left)

1% - You can easily find 1% of a number by dividing the number by 100.

Ex. 1% of 52.8 = 0.528 (more decircle places left)

33 1/3 % - You can easily find 33 1/3% of a number by dividing the number by 3.
```

So if you can find the above percent, then there are also many, many more that you can find.

#### How can you find:

5% - find 10%, then divide by 2.

20% - Find 10%, then multiply by 2.

30% - find 10% then multiply by 3.

60% - find 10% then multiply by 6.

2% - find 1% then multiply by 2.

4% - find 1% then multiply by 4.

11% - find 10%, find 1% then add the 2 answers

15% - Find 10%, then find 5% then add the 2 answers.

75% - find 25% then multiply by 3.

90% - find 100%, then find 10% and subtract the answers.

55% - find 50%, then find 5% and add the answers.

150% - find 100%, then find 50% and add the answers.

If you have to estimate a percent, change the percent to the closest number that you can find mentally, or change the number itself to an easy number to work with.

### Calculate mentally

# Class / Homework

Worksheet

Math 8 Review of Fraction decimal Percent Day 3 REVIEW WS.docx