

Percențage week Form time









Percentages week

Introduction to percentages



Percentage Week

WHY DO WE USE PERCENTAGES?

•Sales

•VAT

•Tax

LoansMortgages

• Bills







Percentages of a whole will add up to 100% 4. What percentage of baby girls are born every year?

- 5. What percentage of farmers do NOT keep horses on their farm?
- 6. What percentage of people in the UK keep pets?

 What percentage of ladies don't bother to diet before their wedding?

- What percentage of farmers keep horses? _____
- 9. What percentage of babies born every year are boys?
- 10. What percentage of people in UK do not keep pets?



Percentages of a whole will add up to 100% 4. What percentage of baby girls are born every year? 50%

- What percentage of farmers do NOT keep horses on their farm?
 75%
- 6. What percentage of people in the UK keep pets?

68% 7.

- What percentage of ladies don't bother to diet before their wedding? <u>16%</u>
- What percentage of farmers keep horses? 25%
- What percentage of babies born every year are boys?
- 10. What percentage of people in UK do not keep pets? 32%



Converting to a percentage



Fractions can be converted into percentages.

When the denominator of a fraction is 100, then the numerator is the %.





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.... Remember to multiply the numerator by the same thing. The numerator is then the %.

Test Mark	Percentage	Test Mark	Percentage	Test Mark	Percentage
<u>25</u> 50	50% '	<u>10</u> 50		<u>44</u> 50	
<u>15</u> 50		<u>45</u> 50		<u>28</u> 50	
<u>30</u> 50		35 50		<u>11</u> 50	
<u>40</u> 50		<u>20</u> 50		<u>22</u> 50	



.... Remember to multiply the numerator by the same thing. The numerator is then the %.

Test Mark	Percentage	Tes	t Mark	Percentage	Test Mark	Percentage
<u>25</u> 50	50%		<u>10</u> 50	20%	<u>44</u> 50	88%
<u>15</u> 50	30%		45 50	90%	<u>28</u> 50	56%
<u>30</u> 50	60%		35 50	70%	<u>11</u> 50	22%
<u>40</u> 50	80%		<u>20</u> 50	40%	<u>22</u> 50	44%



Finding 10% of a number

BUT not all numbers end in 0. That is when we use a decimal! Look at the examples Finding 10% of somethin just divide by 10					
456 = 45.6 We can't just dro decimal point in front of	p off the 6 so we put a it. We move 1 place to the	Number	10% of the number	Number	10% of the number
LEFT when we divide by 10. That's what we are doing when we find 10% of a number.		369	36.9	632	
3768 = 376.8 5689	= 568.9	512		198	
10% of 50	10% of 794	467		215	
		4478		32134	
50 ÷ 10 = 5	796 ÷ 10 = 79.6	9965		45769	
		57698		66878	
So 5 is 10% of 50	So 79.6 is 10%	34657		24712	
of 796		32659		35476	

Finding 10% of something BUT not all numbers end in 0. That is when we use a decimal! Look at the examples BUT not all numbers end in 0. That is when we use a decimal! Look at the examples					
456 = 45.6 We can't just dro decimal point in front of	p off the 6 so we put a it. We move 1 place to the	Number	10% of the number	Number	10% of the number
when we find 10% of a n	369	36.9	632	63.2	
3768 = 376.8 5689	512	51.2	198	19.8	
10% of 50 10% of 796		467	46.7	215	21.5
		4478	447.8 32134	32134	3213.4
50 ÷ 10 = 5	796 ÷ 10 = 79.6	9965	996.5	45769	4576.9
		57698	5769.8	66878	6687.8
So 5 is 10% of 50	So 79.6 is 10%	34657	3465.7	24712	2471.2
	OT / 96	32659	3265.9	35476	3547.6



So now we find 10% of money. Follow the example

 $\pounds 230 = \pounds 23$ (Just drop the zero.)

 \pounds 456 = \pounds 45.6 (But we have 2 digits after the decimal point in money SO just add a zero. = \pounds 45.60

Bemember money always has 2 decimal places

Amount of money	10% of the money	Amount of money	10% of the money
£360	£36	£678	£67.80
£470		£753	
£210		£218	
£870		£8762	
£860		£6643	
£954		£5421	
£461		£8789	





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Amount of money	10% of the money	Amount of money	10% of the money
£360	£36	£678	£67.80
£470	£47	£753	£75.30
£210	£21	£218	£21.80
£870	£87	£8762	£87.62
£860	£86	£6643	£66.43
£954	£95.40	£5421	£54.21
£461	£46.10	£8789	£87.89





Finding other percentages

What do you remember?

	80
10% = ÷10	8
50% = ÷2	40
25% = ÷4	20
20% = ÷5 (or x 10% by 2)	16
1% = ÷100	0.8
30% = x 10% by 2	24









Finding a percentage with a multiplier

Converting activity

You are going to need to convert percentages to decimals. To convert percentages you need to divide the percentage by 100.



How to work a percentage USING A MULTIPLIER? 1. Convert the percentage into a decimal (percentage ÷ 100)

2. Multiply the decimal number by the amount



Have a go...

- 1. Work out 30% of 89 **0.3 x 89 = 26.7**
- 2. Work out 40% of 150 **0.4 x 150 = 60**
- 3. Work out 20% of 230 **0.2 x 230 = 46**
- 4. Work out 70% of 400 **0.7 x 400 = 280**
- 5. Work out 80% of 60 **0.8 x 60 = 48**