



PERGENTAGE





Sale 20% Reductions

How to deal with Percentage problems



How to change percentages, into fractions and decimals

A percentage is a special fraction.

The % says, "per hundred."

For example, 47%, is simply another way of writing the fraction 47/100



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Percentage	Fraction
7%	7/100
19%	19/100
83%	83/100
Etc.	

So to write a percentage as a fraction, you simply put it over 100 like this: 24% = 24/100

6/25

Making Youth Employable Through Skill Development

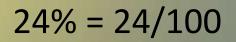
Manglam City, Govindpura, Kalwar Road, Ibotwara, MIPU

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Yes, but remember to try to write the fraction in its simplest terms

12/50

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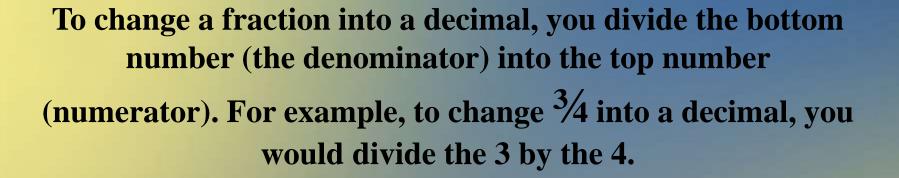
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Percentage	Fraction	Percentage	Fraction
1.23%	23/100	7.80%	
2.24%		8.84%	
3.55%		9.12%	
4. 20%	1/5	10. 48%	
5.17%		11.71%	
6. 78%		12.36%	



 $-3 \div 4 = 0.75$

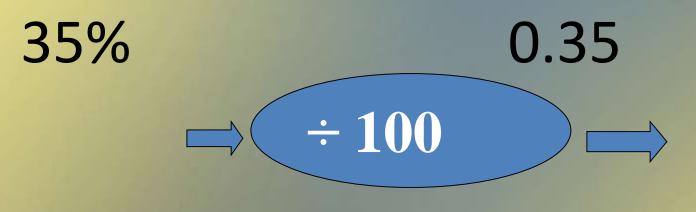
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Remember that a percentage is a fraction always has 100 as its denominator



So, to change a percentage into a decimal, you always divide by 100

For example, 35% as a fraction is 35/100 so to change this into a decimal, you divide 35 by 100





To change decimal into a percentage

Decimal Percentage

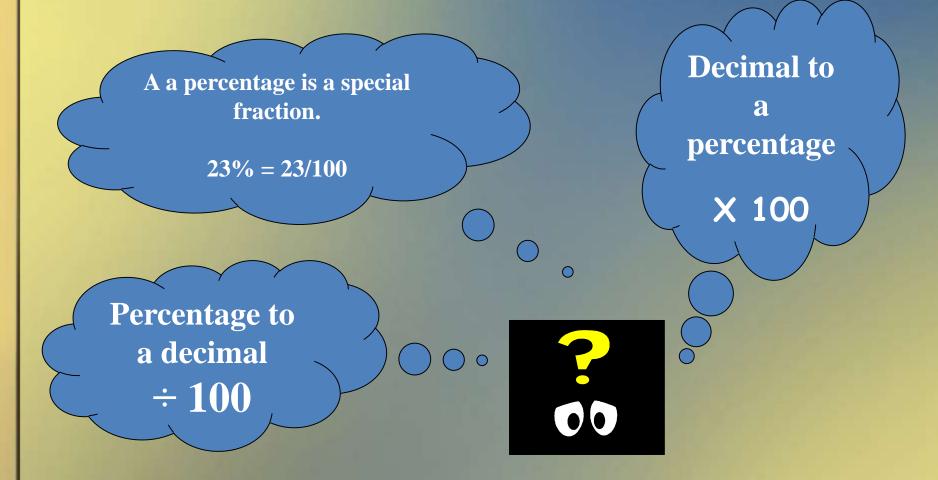
To change a decimal into a percentage, you X by 100

0.23 × 100 23%





You Should Know





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Percentage	Decimal	Decimal	Percentage
1. 27%		7.0.87	
2.2%		8. 0.08	
3. 55%		9. 0.42	
4.5%		10. 0.04	
5. 17%		11. 0.71	
6. 98%		12. 0.07	





Finding one quantity as a percentage of another quantity Science 23/32

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Jill obtained a score of 23 out of 32 in a science test. She wants to know what this will be as a percentage?



To do this, you

Write the result as a fraction 23/32

4. 72%

- Change the fraction into a decimal $(23 \div 32 = 0.71875)$
- Change the decimal into a % (0.71875 X 100 = 71.9%)



There are lots of similar problems and all of these can be tackled in the same way

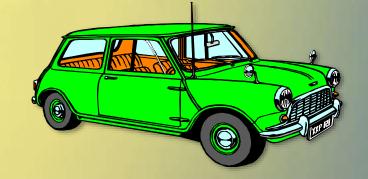
1. Write the quantities as a fraction



- 2. Change the fraction into a decimal (23 ÷ 32 = 0.71875). It's probably a good idea to round off to 2 decimal places.
- 3. Change the decimal into a % (0.72 X 100 = 72%)
- 4. 50, 23 is 72% of 32







What percentage of the cars are green?

Car Par Survey		
Colour	Frequency	
Green	2	
Silver	4	
Black	5	

Total is 11 Want 2/11 as a percentage

Change 2/11 into a decimal = 0.1818

(round off to 2 d,p. Change 0.18 into a %

 $(0.18 \times 100 = 18\%)$ Answer 18%



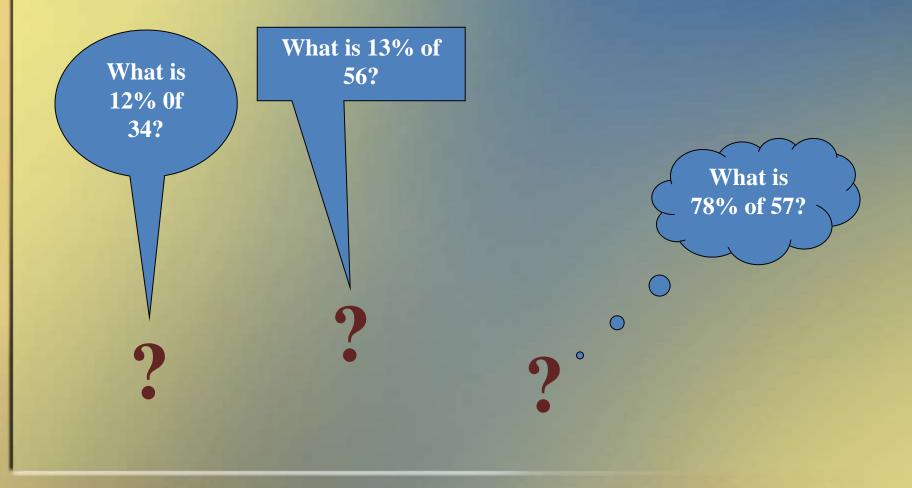
Try these:

1 Work out your percentage if you got 12 out of 25 2 Work out your percentage if you got 15 out of 25 **3 Work out your percentage if you got 17 out of 20** 4 Work out your percentage if you got 19 out of 24 **5 Work out your percentage if you got 17 out of 31 6** A player scores **3** times out of 6 shots. What is their score percentage 7 A player scores 4 times out of 10 shots. What is their score percentage 8 A player scores 44 times out of 69 shots. What is their score percentage **9 Work out 12.5 out of 26 as a percentage 10 Calculate the score percentage if out of 15 shots 12 are successful**





The 'Percentage of' problem





To answer these questions

First : Change the percentage into a decimal Second: Change the word 'of' into a X sign **Third** : Workout **Example:** What is 23% of 45 23% = 0.23 and 'of' $0.23 \times 45 = 10.35$



Finding Percentages of Different Numbers

Problem:

In a survey of 120 pupils it was found that 20% had personal stereos. How many pupils had personal stereos?

Change the percentage to a decimal, then multiply by the number of children.

20% = 0.20 0.20 times 120 = 24





Try these

- 1. 25% of 32
- 2. 75% of 36
- 3. 80% of 35
- 4. 10% of 142
- 5. 20% of 60
- 6. 35% of 70
- 7. 6% of 220
- 8. 15% of 150
- 9. 12% of 20
- 10. 27% of 30







Thanks