

Important ideas

%

Percent

This is the symbol given to show ‘how much’ out of 100.

To find 1% divide by 100

To find 10% divide by 10

Percentage to fraction

Percentage to decimal

10%

out of 100

10 /100 simplified to 1/10

Divide the percentage by 100

How many times does the number fit into 100

100 ÷ 10 = 0.1

Percentage of an amount question

55% of 640

55% =

10% + 10% + 10% + 10% + 10% + 5%

OR

(10% X 5) + (10%/2)

Find 10%

640 ÷ 10 = 64

Find 5%

(this is half of 10%)

5%=32

55% = (5x64) + (32) =352

Pie charts represent 100% of an amount

This model is made with 20 cubes.

Count the total. 20

Count the black cubes 7.

Represent as a fraction 7/20.

make denominator 100

35%

What percentage of the cubes in the model is black?

Important equivalences to remember		
Percentage	Fraction	Decimal
100%	100 /100	1
75%	75 /100=15/20	0.75
50	50 /100 = 1/2	0.5
25%	25/100 = 1/4	0.25
20%	20/100 =1/5	0.2
10%	10/100 = 1/10	0.1
5%	5/100= 1/20	0.05
1%	1/100	0.01

Key Vocabulary			
‘of’ means multiply	To find 10% divide by 10	Increase rise	Decrease Fall, less

Decimal to percentage	Fraction to percentage
0.1 = 10% = 0.10, 0.9=0.90=90% One decimal place is out of 10	1/5 Multiply whole fraction to make denominator 100
0.01 = 1%, 0.03 = 3%, 0.09=9% Two decimal places is out of 100	20/100 Take numerator and place % sign 20%