



PARENT PROMPT PERCENTAGES GUIDE

Per cent means 'out of 100'

The sign % stands for 'per cent' which means 'out of 100'.

So:

- 60% means 60 out of 100
- 13% means 13 out of 100

Finding Percentages

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

To work out the percentage of this shape that is shaded, you must first work out what each part represents.

There are 20 equal parts, so each part represents 5%. How do we know this? There are two ways we can work it out:

1. The shape is divided into 20 pieces and we divide 100% (the whole shape) by 20 and get the answer of 5. So each shaded part is 5% of the whole shape. In numbers: $100\% \text{ (the whole)} \div 20 = 5\%$

OR



2. Each shaded part is $\frac{1}{20}$ of the whole shape. $\frac{1}{20}$ (1 divided by 20) is 0.05 as a decimal. We then multiply this by 100 to make it a percentage. $0.05 \times 100 = 5\%$

In the diagram above, 8 of the parts are shaded, so 40% of the total shape is shaded: $8 \times 5\% = 40\%$

Converting between percentages and decimals

To change a percentage to a decimal, **divide by 100**.

Change 48% to a decimal: $48 \div 100 = 0.48$

To change a decimal to a percentage, **multiply by 100**.

Change 0.67 to a percentage: $0.67 \times 100 = 67\%$

Percentage of a number

To find 20% of 30, use one of the following methods.

1. Convert the 20% to a decimal and then multiply by 30.

$$20\% = 0.2$$

$$0.2 \times 30 = 6$$

2. First find 10% of 30 and then multiply that number by 2.

$$10\% \text{ of } 30 \text{ is } 30 \div 10 = 3$$

$$2 \times 3 = 6$$

3. Recognise that 20% is equivalent to one fifth, and so just divide 30 by 5.

$$30 \div 5 = 6$$

You might choose different methods depending on the numbers in the problem you are solving.

Shawhead Primary School



LEARN THESE:

$$\frac{1}{2} = 50\%$$

$$\frac{1}{4} = 25\%$$

$$\frac{1}{10} = 10\%$$

$$\frac{3}{4} = 75\%$$

$$\frac{1}{5} = 20\%$$