Fractions and percentages

Percentages are measured out of a total of 100.
"In a survey of 100 people, 20 said they had gone to the doctors in the last month". Therefore **20%** had been to the doctors.

Express these quantities as percentages :

1. 25 out of 100 =

2. 50 out of 100 =

3. 75 out of 100 =

4. 5 out of 100 =

5. 90 out of 100 =

6. 10 out of 100 =

7. Use a 1 – 100 grid to show each of the percentages in questions 1 to 6. Shade in the correct percentage (number of squares out of 100).

8. Out of 100 people, 35 were **left** handed.

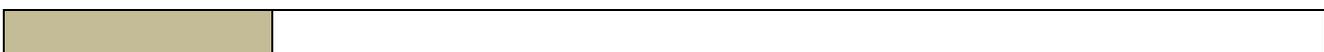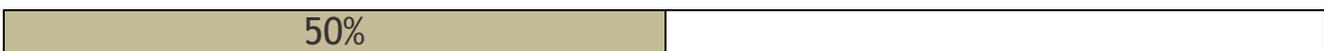(a) How many were **right** handed?   (b) What percentage is this?

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9. In a football match, the blue team had **40%** possession of the ball. What percentage of time did the red team have the ball?

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Use this bar below to shade 40% in blue and the rest of the bar in red to show the possession.

10. Estimate the **percentages** shaded in these diagrams. The first is done for you.

50%

11. Write down the percentage shaded in these diagrams.

(a)

(b)

(c)

(a) ....%   (b) .... %   (c) ....%

11. Four students did a test **out of 50**. Here are their results.

20   25   40   18

| "20 out of 50 is the same as saying   40 out of 100. This is 40%." |

Write out similar sentences for the other 3 test scores.

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13. 120 out of 200 students have a packed lunch. What **percentage** have packed lunch?

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14. A survey found that "75% of boys played sport and 80% of girls played sport".

Does this mean more girls play sport than boys? Explain your answer.

Yes [   ]   No [   ]

Reason..

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