
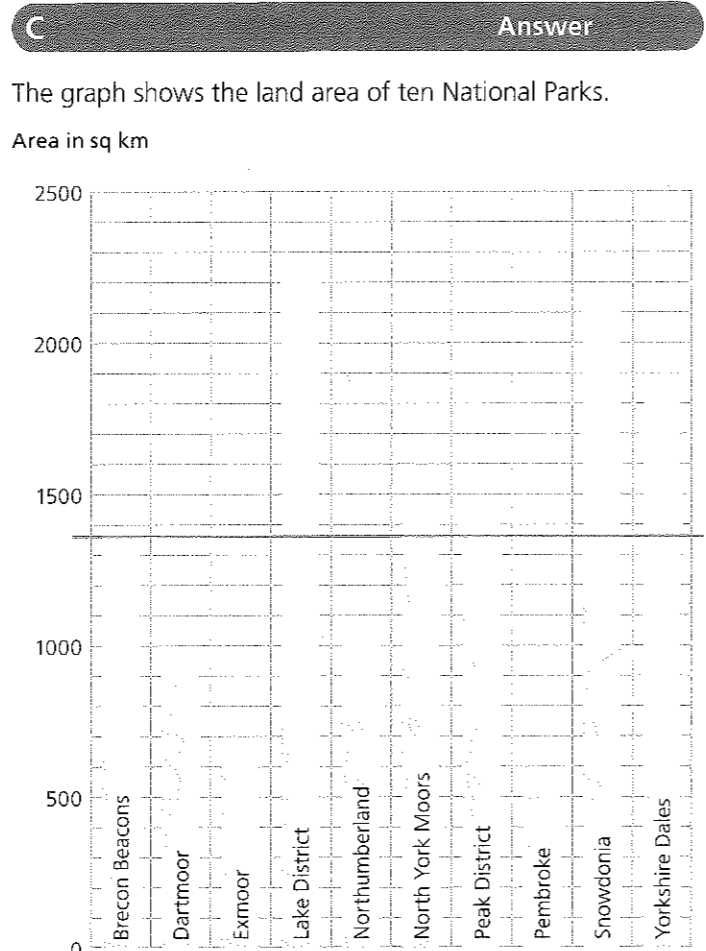


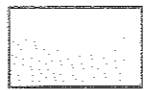
- | A   | Answer     |
|---|------------|
| 1 $587 - 1000 + 643 =$  | 1056 / 230 |
| 2 $24 \div (15 \div 3) =$   | 4r 4       |
| 3 Write in digits $3.5 \times 10^5$ .                                     | 350000     |
| 4 Express $\frac{9}{25}$ as   |            |
| a a decimal   | a 0.36     |
| b a percentage.   | b 36%      |
| 5 Reduce 90 by 15%.   | 76.5       |
| 6 $0.3 \div 0.6 =$  | 0.5        |
| 7 $\frac{5 \times 4}{2}$ is how many times $\frac{0.5 \times 0.4}{0.2}$ ? | 10         |
| 8 Approximate 0.0772 to   |            |
| a 2 decimal places  | a 0.08     |
| b the nearest thousandth.   | b 0.077    |
| 9 Calculate $52 \div 6$ correct to two decimal places.                    | 8.67       |
| 10 If $m = 6, n = 5$ , evaluate $m^2 - n^2$ .                             | 11         |
| 11 $\frac{1}{2}(3 + x) = 4$ so $x =$                                      | 5          |
| 12 $\sqrt{49} =$  | 7          |

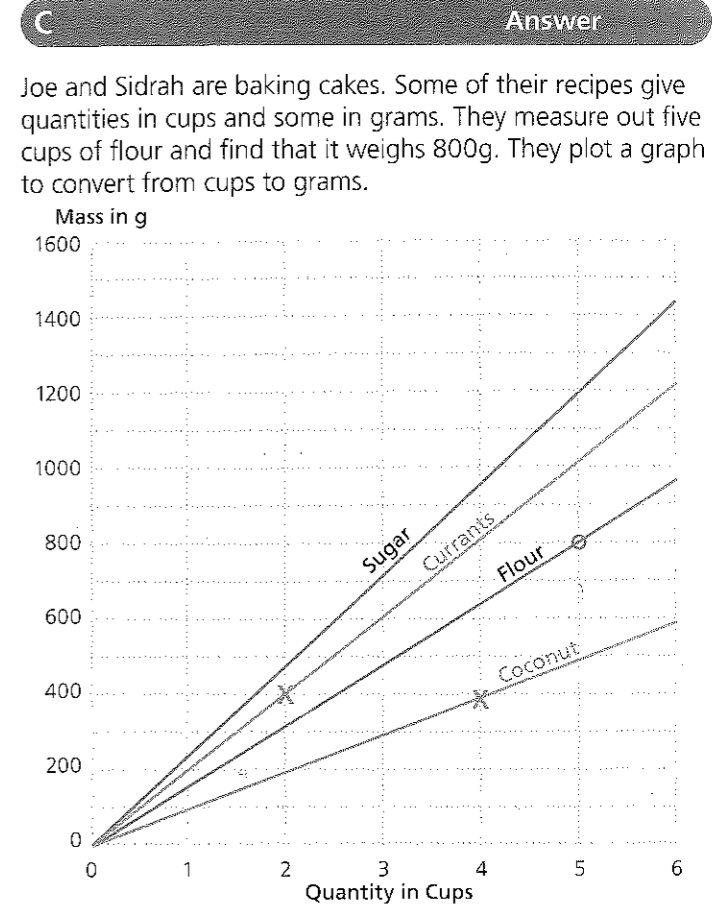
- | B  | Answer              |
|--|---------------------|
| 1 I buy magazines costing £1.35, £2.20 and 85p. How much change from £5?   | 60p                 |
| 2 How many Euros for £500 at 1.25 Euros to £1?   | €625                |
| 3 16oz = 1lb. 5lb 6oz =  | 86oz                |
| 4 3lb 12oz + 4lb 8oz =   | 8lb 4oz             |
| 5 How many hours and minutes between 8.46 a.m. and 3.22 p.m.?  | 6h 36min            |
| 6 1m <sup>3</sup> of olive oil has a mass of 920kg. What is the volume of 460g of oil?   | 500cm <sup>3</sup>  |
| 7 A tank 0.75m tall has a square base with sides measuring 0.8m each. Find its volume.   | 0.48cm <sup>3</sup> |
| 8 A right-angled triangle with sides of 3cm, 4cm and 5cm is enlarged by the scale factor 3. What is the area of the new triangle?                            | 54cm <sup>2</sup>   |
| 9  What is the order of rotational symmetry of a square about its centre? | 4                   |
| 10 Approximate 165oz to the nearest pound.   | 10lb                |



- |   |                      |
|---|----------------------|
| 1 Which is the smallest National Park?  | Pembroke             |
| 2 Which is the largest National Park?   | Lake District        |
| 3 Which park is approximately half the area of Northumberland?                    | Pembroke             |
| 4 The largest park is approximately how many times bigger than the smallest park? | 4                    |
| 5 Estimate the total area of all ten parks (to the nearest 100km <sup>2</sup> ).  | 13600km <sup>2</sup> |
| 6 Estimate the mean (average) area of the ten parks.                              | 1360km <sup>2</sup>  |
| 7 Draw a line on the graph to show the mean area of the parks.                    |                      |
| 8 Which park is nearest in area to the mean?                                      | Brecon Beacons       |
| 9 The Brecon Beacons is approximately what percentage of the total area?          | 10%                  |
| 10 Which park is approximately 5% of the total area?                              | Exmoor               |
| 11 Which park is approximately one-eighth of the total area?                      | Yorkshire Dales      |
| 12 The Lake District is approximately what fraction of the total area?            | $\frac{1}{6}$        |

- | A   | Answer         |
|---|----------------|
| 1 $221 \div 17 =$   | 13             |
| 2 $24 - (15 \times 3) =$  | -21            |
| 3 Write in digits 2 <sup>4</sup> .  | 16             |
| 4 The ratio of girls to boys is 7:3. If there are 28 girls how many boys are there? | 12             |
| 5 Express $51 \div 8$ as a mixed number.  | $6\frac{3}{8}$ |
| 6 $5.02 - 0.502 =$  | 4.518          |
| 7 $2(\frac{3.6+4.8}{6}) =$  | 2.8            |
| 8 Approximate 0.00822 to  |                |
| a 2 decimal places  | a 0.01         |
| b 1 decimal place.  | b 0.0          |
| 9 Estimate correct to the nearest whole number. $(9.973 + 5.032) \div 2.986$        | 5              |
| 10 If $m = 6, n = 5$ , evaluate $(m + n) \times (m - n)$ .                          | 11             |
| 11 $\frac{3}{p} = \frac{1}{3}$ so $p =$   | 9              |
| 12 Write the next two terms of the sequence. 1, 3, 6, 10, ,                         | 15 21          |

- | B  | Answer           |
|--|------------------|
| 1 How much change from £10 if I spend £2.45, £1.80 and £3.75?  | £2               |
| 2 What must I sell a £60 table for to make a profit of 30%?  | £78              |
| 3 2½ gallons =   | 20 pints         |
| 4 5lb 2oz - 3lb 10oz =   | 1lb 8oz          |
| 5 How many hours and minutes from 7.30 p.m. Friday to 11.15 a.m. Monday?   | 63h 45min        |
| 6 A park is approximately 300m square. What is its approximate area in hectares?   | 9ha              |
| 7 A wooden cube has a volume of 125cm <sup>3</sup> . How long is the cube's edge?  | 5cm              |
| 8 A line was enlarged by the scale factor 4. The new line is 72mm long. How long in centimetres was the original line?                         | 1.8cm            |
| 9  What is the number of axes of symmetry of a rectangle? | 2                |
| 10 Approximate 2¼ million square metres to the nearest square kilometre.   | 2km <sup>2</sup> |



Use the graph to answer the following questions.

- |   |               |
|---|---------------|
| 1 What is the mass of one cup of flour?   | 160g          |
| 2 What is the mass of 2½ cups of flour?   | 400g          |
| 3 About how many cups of flour weigh 0.5kg?   | 3             |
| Joe and Sidrah plot a conversion graph for sugar.   |               |
| 4 What is the mass of five cups of sugar?   | 1200g         |
| 5 About how many cups are needed for 1kg of sugar?  | 4             |
| 6 Estimate the total mass of one cup of sugar and two cups of flour.  | 560g          |
| 7 How many times heavier is sugar than flour? (Hint: compare the mass of one cup of sugar with one cup of flour.) | $\frac{3}{2}$ |
| Joe and Sidrah find that four cups of coconut weigh 380g and two cups of currants weigh 400g.                     |               |
| 8 Plot these two points on the graph above.   |               |
| 9 Draw the conversion graphs for coconut and for currants.  |               |
| 10 About how many cups of currants weigh the same as five cups of flour?  | 4             |
| 11 About how many cups are needed for ½kg of coconut?   | 5             |
| A cake recipe needs three cups of flour, one cup of sugar and 1½ cups of currants.                                |               |
| 12 Estimate the mass of all these ingredients.  | 1kg           |