

Test 5 Measure

Notes

- Q1 The answer to this question may be expressed in a number of ways. Essentially it should state that the answer is *about* $\frac{3}{4}$ litre.
- Q2 Part (b) is best calculated as 4 glasses \rightarrow 1 litre so 12 glasses $(4 + 4 + 4) \rightarrow$ 3 litres.
- Q3 Addition and subtraction is not intended here. The children are expected to think in terms of 'There are four quarter litres in a litre. One quarter litre to each twin uses up two quarter litres. So there are two quarter litres left.' Some children may realize this is the same as one half.
- Q6 The children should look carefully at both diagrams.
- Q7 The children should equate 'halved' with 'divided by 2'. Some may need this explanation.

Answers

- 1 There is 'just less than $\frac{3}{4}$ litre' or 'about $\frac{3}{4}$ litre' or 'between $\frac{1}{2}$ and $\frac{3}{4}$ litre' of lemonade in the bottle.
- 2 (a) $\frac{1}{4}$ litre (b) 3 litres
- 3 $\frac{2}{4}$ litres or $\frac{1}{2}$ litre of milk was left.
- 4 (a) Salt (750 g) and butter (250 g)
(b) 2 kg 200 g
- 5 (a) 960 g (b) 40 g
- 6 'The letter is lighter than 35 g but heavier than 30 g.'
or 'The letter weighs between 30 g and 35 g.'
- 7 2 kg

Test 13 Measure

Answers

- 1 (a) 4 m 75 cm (b) 26 m 31 cm
(c) 48 m 90 cm (d) 50 m 50 cm
- 2 (a) 176 cm (b) 1080 cm
(c) 4506 cm (d) 2009 cm
- 3 (a) Dugald (b) 57 cm
(c) 58 cm further
- 4 34 cm
- 5 (a) 5 m 13 cm (b) 5 m 21 cm
- 6 (a) Bill — 1 m 30 cm, Don — 1 m 70 cm,
Bob — 1 m 45 cm, Dave — 1 m 80 cm
(b) 50 cm higher
- 7 51 m 37 cm

Test 14 Measure

Notes

- Q4 This question is quite difficult. Some children might find it a help to list days and dates, or to count forward or back using fingers.
- Q5,6 Children should use an agreed rule for dealing with part-squares. For Q5 children will probably do a straight-forward count of squares. However, it is possible to use symmetry — the 'body' of the butterfly has an area of 2 cm^2 and each 'wing' has area 7 cm^2 approximately.
- In Q6 the area of the blue quarter is approximately 7 cm^2 so the area of the whole oval is 4 times 7 cm^2 , i.e. 28 cm^2 approximately.

Answers

- 1 (a) May, June, July, August
(b) 123 days
- 2 (a) Sunday
(b) 8th Dec. 1994 or 8.12.94, etc.
- 3 (a) Wednesday, 30th November
(b) Thursday, 10th November
- 4 (a) Thursday (b) Monday
(c) Friday
- 5 about 16 cm^2
- 6 (a) about 7 cm^2 (b) about 28 cm^2

Test 22 Measure

Notes

- Q3 Some children may be misled by the pointer on the right-hand balance being lower than that on the other balance and yet indicating a lighter weight. Also, some may be unfamiliar with spring-balance scales which are read from the top down.
- Q4 Pupils are not intended to try to read these scales accurately but rather to think in terms of 'more than 39 kg', 'between 38 kg and 39 kg', 'less than 38 kg'.
- Q5 Some pupils may be puzzled by the phrase 'to add or take away'. A word from the teacher may help them to see that Amy has put on too much flour and has to take some off again.

Answers

- 1 Fluff — $1\frac{1}{2}$ kg Stripey — $3\frac{1}{4}$ kg
Spot — $4\frac{3}{4}$ kg
- 2 (a) $3\frac{1}{2}$ kg or 3 kg 500 g or 3500 g
(b) 870 g (c) 1480 g
- 3 Peter's fish is heavier by 100 g
(750 g — 650 g).
- 4 Lisa is heaviest.
- 5 Amy must add 20 g of sugar and take away 40 g of flour.
- 6 1 kg