

Answers

Test 1: Number and place value (page 4)

1 April February March January 1 mark

2 6°C 1 mark

3 128,500 (rounded to nearest 100)
128,000 (rounded to nearest 1000)
130,000 (rounded to nearest 10,000)

Award 1 mark for two correct answers or 2 marks for all three correct answers.

4 890 and 555 1 mark

5 209,000 209,100 209,200 1 mark

6 $760,300 = 700,000 + 60,000 + 300$ 1 mark

7 Accept any one of these possible answers:

$$900,099 < 999,008 \quad 900,907 < 999,008$$

$$900,099 < 900,907$$

nine hundred thousand and ninety-nine = 900,099;

nine hundred and ninety-nine thousand and eight

= 999,008; nine hundred thousand, nine hundred

and seven = 900,907

Award 1 mark for selecting a correct pair of numbers or 2 marks for selecting a correct pair of numbers and writing the numbers correctly in numerals.

8 9753 1 mark

Test 2: Calculations (page 6)

1 78 buttons
 $24 \times 3 = 72$
 $150 - 72 = 78$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

2
$$\begin{array}{r} 703 \\ \times 2 \\ \hline 1406 \end{array} \quad \begin{array}{r} 82 \\ \times 6 \\ \hline 492 \end{array}$$

Award 1 mark for both multiplications ticked.

3 $£465 - £52.45 = £412.55$ 1 mark

4
$$\begin{array}{r} 2 \quad \boxed{7} \quad 9 \\ + 3 \quad 2 \quad \boxed{2} \\ \hline 6 \quad 0 \quad 1 \end{array}$$

Award 1 mark for both numbers inserted correctly.

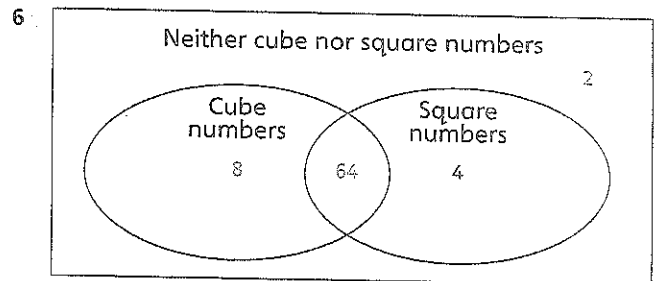
5 12 is a multiple of 6 and a factor of 24.

Also accept 2, 3 or 4.

14 is a multiple of 7 and a factor of 28.

Also accept any other multiple and factor of that multiple.

Award 1 mark for three correct numbers.



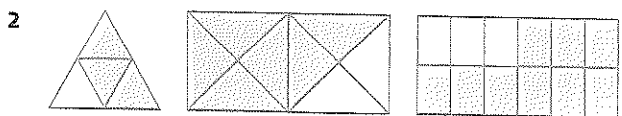
Award 1 mark for two numbers placed correctly or 2 marks for all three numbers placed correctly.

7 21 and 39 1 mark

8 $619 \div 20 = 30$ remainder 19 1 mark

Test 3: Fractions, decimals and percentages (page 8)

1 $\frac{2}{3} = \frac{4}{6} = \frac{8}{12}$ 1 mark



Any three triangles can be shaded in the first shape, any six triangles shaded in the second shape and any nine rectangles shaded in the third shape.

Award 1 mark for all three shapes shaded correctly.

3 $\frac{1}{2}$ and 2% 1 mark

4 2.02 2.022 2.2 2.202 2.22 1 mark

5 $\frac{1}{6}$ is double $\frac{1}{3}$ X

$$0.3 \times 10 = 0.30 \text{ X}$$

Double $\frac{1}{5}$ is half of $\frac{8}{10}$ ✓

Award 1 mark for all three statements marked correctly.

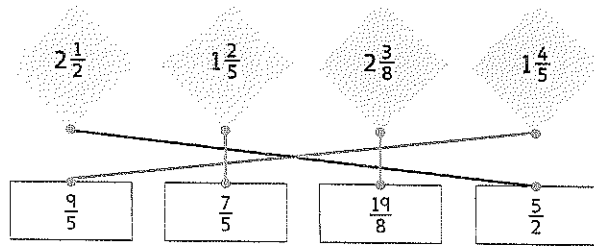
6 $\frac{1}{6}$

$$\frac{1}{3} + \frac{1}{2} = \frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

$$1 - \frac{5}{6} = \frac{1}{6}$$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

7



Award 1 mark for all three lines drawn correctly.

- 8 117 vanilla ice creams
 $\frac{2}{3}$ of 351 = $351 \div 3 \times 2 = 117 \times 2 = 234$ chocolate ice creams
 $351 - 234 = 117$ vanilla ice creams
 or
 $1 - \frac{2}{3} = \frac{1}{3}$
 $\frac{1}{3}$ of 351 = $351 \div 3 = 117$ vanilla ice creams

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

Test 4: Ratio and proportion (page 10)

- 1 The ratio of : = 3:2 ✓
 60% of the shapes are ✓
 The ratio of : = 3:2 ✓
 Award 1 mark for all three statements marked correctly.
- 2 Ava has 16 grapes and Harry has 20 grapes.
 $4 + 5 = 9$
 $36 \div 9 = 4$
 $4 \times 4 = 16$ grapes
 $4 \times 5 = 20$ grapes
 1 mark
- 3 32% 1 mark
- 4 25 biscuits
 $100\% = 20\% \times 5$
 $5 \times 5 = 25$
 Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 5 $\pounds 9.60 \div 2 = \pounds 4.80$ 1 mark
- 6 8 sweets
 $25 - 9 = 16$
 $16 \div 2 = 8$
 Also accept answer given as a bar model:

Lee	8	
Arlo	8	9

} 25

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

- 7 She uses 3 eggs to make 18 cupcakes. 1 mark
- 8 Accept either:
 If a miniature model of this plane is 10cm long then it will be 2cm wide, not 20cm.
 or
 If a miniature model of this plane is 20cm wide then it will be 100cm long, not 10cm. 1 mark

Test 5: Algebra (page 12)

- 1 $P = 2a + c$ and $P = a + a + c$ 1 mark
- 2
- | n | $n - 3$ |
|-----|---------|
| 15 | 12 |
| 32 | 29 |
- 1 mark
- 3
- | | |
|-------------------|------------------|
| $30 = 20 + x + y$ | $x = 20, y = 2$ |
| $18 + x = 40 - y$ | $x = 2, y = 8$ |
| $40 - x = y$ | $x = 30, y = 10$ |
- Award 1 mark for one line drawn correctly or 2 marks for all three lines drawn correctly.
- 4 a) $3m - k$ 1 mark
 b) It is the odd one out because all the other expressions have a value of 0, whereas $3m - k = 24$. 1 mark
- 5 a) $a = 11$ 1 mark
 b) $5b - 25 = 0$ 1 mark
- 6 The number of circles cannot be an odd number as the numbers go up in 2s starting from 4. They are all even numbers.
 or
 Number of is $(2 \times \triangle) + 2$, so number of in the tenth pattern would be $(2 \times 10) + 2 = 22$, not 41.
 Award 1 mark for a correct explanation.
- 7 $x = 4\text{cm}, y = 6\text{cm}$ and $x = 3\text{cm}, y = 8\text{cm}$
 Award 1 mark for both correct answers.

Answers

Test 6: Measurement (page 14)

1 8:07 or 7 minutes past 8 1 mark

2 265ml

$$\frac{1}{2}l = 500\text{ml}$$

$$500\text{ml} - 235\text{ml} = 265\text{ml}$$

1 mark

3 70p

1 cupcake costs £1.75 so 2 cupcakes = £3.50

1 doughnut = £3.50 ÷ 5 = 70p

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

4 7.5 hours

1 mark

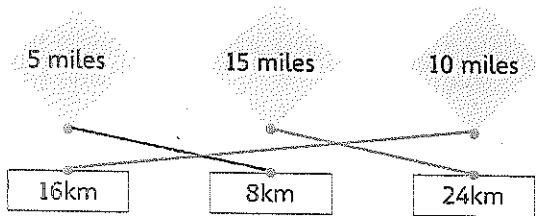
5 a) $A = 3 \times 1 = 3\text{m}^2$ $B = 0.5 \text{ m} \times 0.6 \text{ m} = 0.3\text{m}^2$

Award 1 mark for both areas correct.

b) Area of rectangle A > area of rectangle B.

1 mark

6



Award 1 mark for both lines drawn correctly.

7 Yes, he is correct.

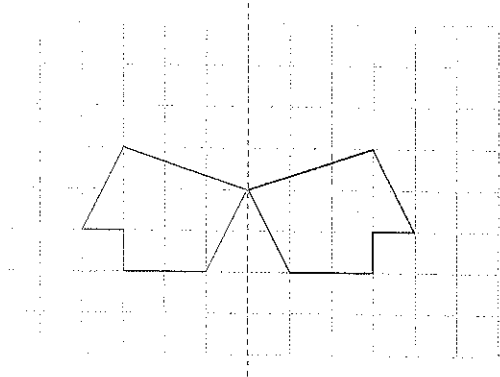
1 mark

$$840\text{g} \div 7 = 120\text{g} = 0.12\text{kg}$$

1 mark

Test 7: Geometry (page 16)

1

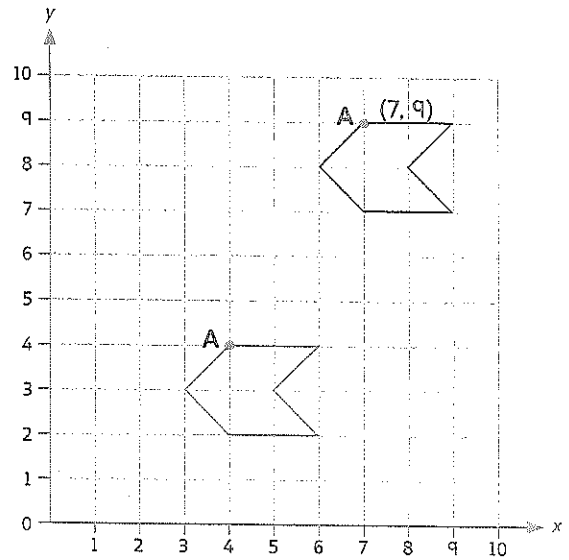


1 mark

2 The diameter of the circle is 10cm.

1 mark

3



1 mark

4

Right angles	Acute angles	Obtuse angles
B	A	C D

Award 1 mark for all three letters placed correctly.

5 Face D should be crossed.

1 mark

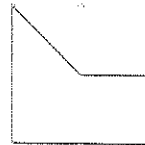
$$6 \quad a = 360^\circ - 88^\circ - 53^\circ - 90^\circ = 129^\circ$$

1 mark

$$b = 180^\circ - 129^\circ = 51^\circ$$

1 mark

7 Possible answer:



Accept any other pentagon (five-sided shape) with three right angles.

1 mark

8: A, B, C and D are prisms. ✓

C has 8 faces and 18 edges. ✓

B has 5 faces, 6 vertices and 9 edges. ✓

Award 1 mark for two correct answers or 2 marks for three correct answers.

Test 8: Statistics (page 20)

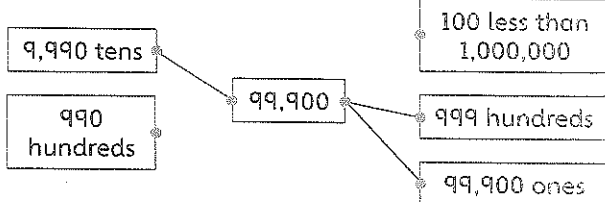
- 1 The number of people in July was 32,500.
The number of people in August was 15,000.
This is not a decrease of 50%, as 50% of 32,500 is 16,250. 1 mark
- 2 165 seconds
 $150 + 144 + 136 + 185 + 175 + 200 = 990$
 $990 \div 6 = 165$
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 3 5 months 1 mark
- 4 a) 3 more girls 1 mark
b) orange ($8 + 7 = 15$ children) 1 mark
- 5 25% of the children like toast. ✓
8 children like yoghurt. ✗
 $\frac{1}{8}$ of the children like fruit. ✓
15 children like cereal. ✓
Award 1 mark for three correct answers or 2 marks for four correct answers.
- 6 14:39 1 mark
- 7 The bar for Beatrice should be drawn to 30 on the graph. $50 - 20 = 30$ 1 mark

Test 9: Mixed (page 24)

- 1 $801 \div 9 = 89$ days 1 mark
$$\begin{array}{r} 89 \\ 9 \overline{)801} \\ \underline{72} \\ 81 \\ \underline{81} \\ 0 \end{array}$$
- 2 20 days
 $225 \text{g} \times 2 = 450 \text{g}$
 $9 \text{kg} = 9,000 \text{g}$
 $9,000 \div 450 = 20$
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 3 66 stamps
 $18 \div 3 = 6$
 $8 + 3 = 11$
 $11 \times 6 = 66$
Also accept $8 \times 6 = 48$
 $48 + 18 = 66$
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

- 4 $17 + 23 \times 5 = 17 + 115 = 132$ 1 mark
BODMAS rules apply. BODMAS tells you the order in which the operations should be done – Brackets, Orders (powers and square roots), Division, Multiplication, Addition, Subtraction. So, the multiplication must be worked out first and then the addition.
- 5 174 seeds
 $23 \times 6 = 138$
 $12 \times 3 = 36$
 $138 + 36 = 174$
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 6 vanilla and mint
vanilla and strawberry 1 mark
- 7 C, E and H 1 mark

Test 10: Mixed (page 26)

- 1 $\frac{1}{3}$ 1 mark
- 2 17
BODMAS rules apply, so multiplication is done first.
 $3 \times 5 = 15 + 2 = 17$ 1 mark
- 3 Add 100 then subtract 6. ✓
Add 6 then subtract 100. ✗
Subtract 6 then add 100. ✓
Add 3 then add 90 then add 1. ✓
Award 1 mark for two correct answers or 2 marks for three correct answers.
- 4 15×4 and $45 \div 15$
Award 1 mark for each correct answer.
- 5 a) 90% 1 mark
b) 3 hours 1 mark
- 6 
Award 1 mark for both lines drawn correctly.
- 7 $\frac{23}{6}$ 1 mark

Test 11: Mixed (page 28)

- 1 25,432 and 73,689
In 25,432 the tens digit is 3 and the ten thousands digit is 2. In 73,689 the tens digit is 8 and the ten thousands digit is 7. 1 mark
- 2 12cm²
Area of a parallelogram = base × height
4cm × 3cm = 12cm² 1 mark
- 3 100 minutes = 1 hour 40 minutes. She started running at 9.50 a.m. 1 mark
- 4 Sophie: 12 conkers
Ravi: 23 conkers
35 - 11 = 24
24 ÷ 2 = 12
Also accept answer given as a bar model:
- | | | | | |
|--------|----|----|---|----|
| Sophie | 12 | | } | 35 |
| Ravi | 12 | 11 | | |
| ⏟ | | | | 23 |

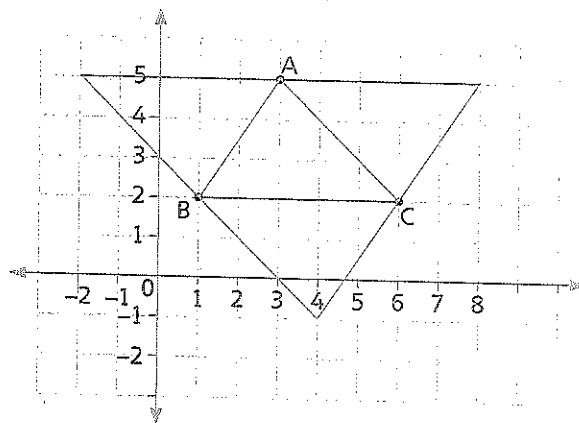
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

- 5 25 × 8 (= 200) 1 mark
- 6 84 more orange beads
40% = pink, 60% = orange
60% - 40% = 20%
20% of 420 = 84
Award 1 mark for correct working or 2 marks for the correct answer with appropriate explanation.
- 7 No. The proportion of correct answers is the same ($\frac{35}{42} = \frac{5}{6}$ and $\frac{45}{54} = \frac{5}{6}$).
Award 1 mark for the correct answer or 2 marks for the correct answer with appropriate explanation.

Test 12: Mixed (page 30)

- 1 19.842 1 mark
- 2 a) $\frac{30}{45} = \frac{2}{3}$ $\frac{50}{75} = \frac{2}{3}$ $\frac{32}{48} = \frac{2}{3}$ $\frac{16}{30} = \frac{8}{15}$ 1 mark
b) $\frac{16}{30}$ is the odd one out as the others are all equivalent. 1 mark
- 3 63°
35° + 28° = 63°
180° - 63° = 117°
180° - 117° = 63°
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

- 4 $y = 13$
 $x = 26$ and $x = y + y$, so $y = 26 \div 2 = 13$ 1 mark
- 5 6,693 stickers
 $7 \times 100 \times 10 = 7,000$ stickers in the shop
 $7,000 - 307 = 6,693$ stickers left
Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 6 300g $\frac{1}{4}$ of 2kg $\frac{1}{2}$ of 3kg 1 mark
- 7 Accept one of the following answers:
D = (4, -1) or (-2, 5) or (8, 5)



1 mark

Test 13: Number and place value (page 32)

- 1 MMXIX 1 mark
- 2 21,034 1 mark
- 3 a) 8 1 mark
b) 4 1 mark
- 4 98,921 425,796 4,897,543 1 mark
- 5

13			34	41	48			69
----	--	--	----	----	----	--	--	----

1 mark

- 6 24,859
Award 1 mark for four correct digits or 2 marks for five correct digits.

Rounded to the nearest 1,000	Starting number	Rounded to the nearest 10,000
634,000	634,481	630,000
1,847,000	1,847,038	1,850,000
31,000	30,746	30,000

Award 1 mark for three correct answers or 2 marks for four correct answers.

Test 14: Calculations (page 34)

1 21 and 42

1 mark

x	8	9
7	56	63
6	48	54

Award 1 mark for all numbers correct.

3 $7 \times 60 = 70 \times 6$
 $300 \times 4 > 7 \times 100$
 $7 \times 60 = 60 \times 7$

1 mark

4 96 more beads
 $9:1 = 9 + 1 = 10$
 Sam has $120 \div 10 = 12$ beads
 Ruby has $12 \times 9 = 108$ beads
 Ruby has $108 - 12 = 96$ more beads

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

5 $17 \times 6 = 17 \times 3 + 3$

1 mark

6  = 2  = 5  = 8

Accept the numbers 2, 5 and 8 in any order.

Award 2 marks for three correct answers.

7 535 children
 $450 + 380 = 830$ children from Year 3 and Year 4
 $1,900 - 830 = 1,070$ children in Year 5 and 6
 $1,070 \div 2 = 535$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

Test 15: Fractions, decimals and percentages (page 36)

1 $\frac{3}{20}$
 $100\% = 85\% \text{ red apples} + 15\% \text{ green apples}$
 $15\% = \frac{15}{100} = \frac{3}{20}$
 Also accept $\frac{15}{100}$

1 mark

2 2720kg
 $120 \times 22 = 2,640$
 $120 \times \frac{2}{3} = 80$
 $2,640 + 80 = 2,720\text{kg}$
 or
 $22\frac{2}{3} = \frac{68}{3}$
 $\frac{68}{3} \times 120 = 2720\text{kg}$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

3 0.05 and 0.48 1 mark

4 20 1 mark

5 $\frac{3}{4} = \frac{12}{16} = \frac{120}{160}$ 1 mark

6 3.15 1 mark

7 2.48 is rounded to 2 to the nearest whole number because 2.48 is closer to 2 than 3. 1 mark

8 Shop B
 $\frac{1}{5} = 20\%$
 20% off £60 gives a price of £48.
 25% off £60 gives a price of £45.
 or
 $\frac{1}{5} = \text{£}12$
 $\text{£}60 - \text{£}12 = \text{£}48$
 $25\% = \text{£}15$
 $\text{£}60 - \text{£}15 = 45$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

Test 16: Ratio and proportion (page 38)

1 15 cubes 1 mark

2 18 purple balloons
 $40\% = 12$ balloons
 $10\% = 3$
 $60\% = 3 \times 6 = 18$ purple balloons

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

3 If Bailey buys 9 pencils, he gets 6 pencils free. 1 mark

4 $14:7 = 8:4$
 or
 $14:8 = 7:4$ 1 mark

5 12 sweets:18 sweets 1 mark

6 a) 12cm
 $4 + 4 + 4 = 12$ 1 mark
 b) 24cm
 $2 \times 4 = 8$
 $8 + 8 + 8 = 24$ 1 mark

Answers

Test 16: Ratio and proportion (page 38) continued



- 7 50 beads
 Fraction of beads used in bracelet = $1 - \frac{3}{5} = \frac{2}{5}$
 $\frac{1}{5} = 20 \div 2 = 10$
 $\frac{5}{5} = 10 \times 5 = 50$ beads
 or
 $\frac{2}{5} = 20$
 $\frac{1}{5} = 10$
 $\frac{5}{5} = 50$ beads

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

Test 17: Algebra (page 40)

- 1 $b = a - 4$ 1 mark
- 2 $2 + y$ should be crossed out and replaced with $2 + 2y$ or $2y + 2$. 1 mark
- 3 17 12 7 2 -3
 Award 2 marks for three correct answers.
- 4 32 photos
 $\pounds 10 - \pounds 2 = \pounds 8$
 4 photos cost $\pounds 1$.
 32 photos cost $\pounds 8$ or 800p.
 or
 $800 \div 25 = 32$ photos
- Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 5 7 and 9 1 mark
- 6 40p
 2 pens and 3 pencils cost 90p
 4 pens and 3 pencils cost 150p
 So, 6 pens and 6 pencils cost $90p + 150p = 240p$
 1 pen and 1 pencil = $240 \div 6 = 40p$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

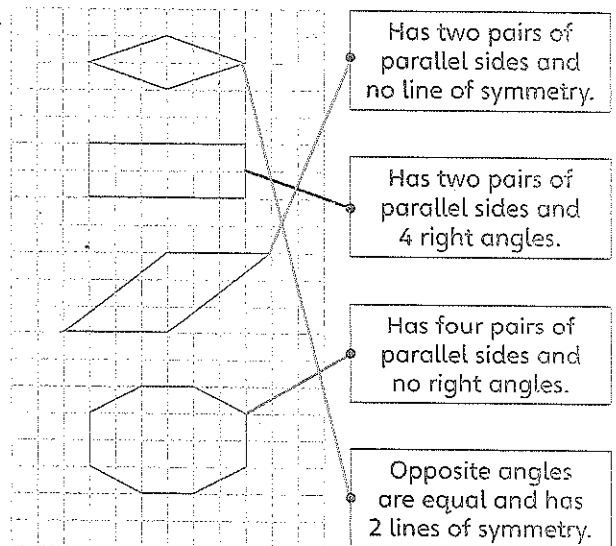
- 7  = 5  = 4 1 mark

Test 18: Measurement (page 42)

- 1 0.4km 1 mark
- 2 4cm^2
 Area of parallelogram = base \times height =
 $2\text{cm} \times 2\text{cm} = 4\text{cm}^2$ 1 mark

- 3 $\pounds 11.20 \times 5 = \pounds 56$ 1 mark
- 4 $12\text{cm} + 10\text{cm} + 6\text{cm} + 3\text{cm} + 4\text{cm} + 3\text{cm}$
 $+ 2 + 10 = 50\text{cm}$ 1 mark
- 5 12 pads
 Volume of pad = $(4\text{cm})^3 = 64\text{cm}^3$ 1 mark
 Volume of box = $8 \times 8 \times 12 = 768\text{cm}^3$ 1 mark
 Number of pads in box = $768 \div 64 = 12$ pads 1 mark
- 6 1.095kg
 $0.4\text{kg} + 0.505\text{kg} = 0.905\text{kg}$
 $2\text{kg} - 0.905\text{kg} = 1.095\text{kg}$
 Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
- 7 $1\text{cm} = 10\text{mm}$ and $100\text{mm} = 10\text{cm}$ 1 mark

Test 19: Geometry (page 44)

- 1 
 - Has two pairs of parallel sides and no line of symmetry.
 - Has two pairs of parallel sides and 4 right angles.
 - Has four pairs of parallel sides and no right angles.
 - Opposite angles are equal and has 2 lines of symmetry.

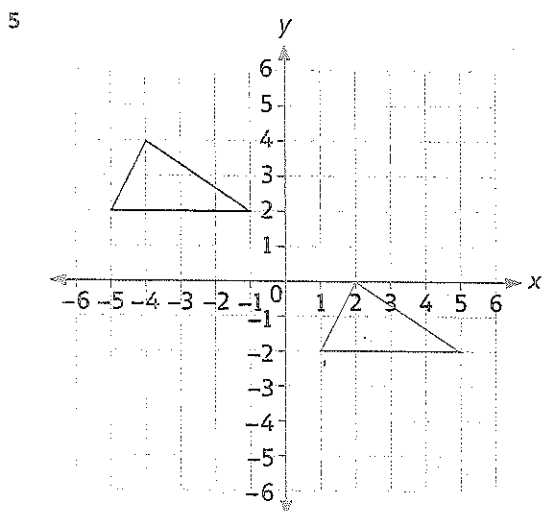
Award 1 mark for one line drawn correctly or 2 marks for three lines drawn correctly.

2

Number of faces	Number of edges	Number of vertices
45	58	85

Award 1 mark for two correct answers or 2 marks for all three correct answers.

- 3 (3, -2) 1 mark
- 4 AB and CD are diameters of the circle. The diameter is twice the length of the radius. So $AB = 2 \times 3\text{cm} = 6\text{cm}$ and $CD = 2 \times 6\text{cm} = 12\text{cm}$. 1 mark



1 mark

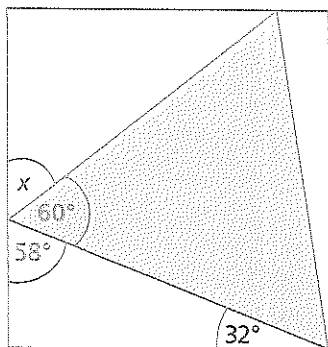
6 Only B should be ticked. The rest should be crossed.

1 mark

7 $x = 62^\circ$

$$180^\circ - 90^\circ - 32^\circ = 58^\circ$$

$$180 - 58^\circ - 60^\circ = 62^\circ$$



Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

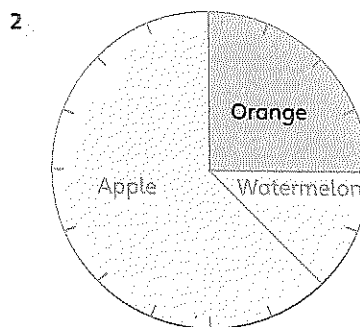
Test 20: Statistics (page 48)

1 £7.50

$$£5 \times 3 + £11.25 \times 2 = £37.50$$

$$£37.50 \div 5 = £7.50$$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.



The watermelon slice is half the size of the orange slice. The rest of the pie chart is apple.

Award 1 mark for both parts drawn and labelled correctly.

3

	Running	Football	Total
Boys	38	32	70
Girls	38	42	80
Total	76	74	150

Award 1 mark for correctly inserting five values or 2 marks for correctly inserting all seven values.

4 $32 - 15 = 17$ minutes

1 mark

5 She should take the 05:31 train.

The 05:02 train takes 3 hours 27 minutes to reach Carlisle. The 05:12 train takes 3 hours 13 minutes and the 05:31 train takes 2 hours 55 minutes. 1 mark

6 156cm

$$149\text{cm} \times 4 = 596\text{cm}$$

$$\text{Lara's height} = 596\text{cm} - (140\text{cm} + 148\text{cm} + 152\text{cm}) = 596\text{cm} - 440\text{cm} = 156\text{cm}$$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

7 $450 + 550 = 1,000$ chocolate ice creams

1 mark

Test 21: Mixed (page 52)

1 $608 \times 8 + 2$

1 mark

2 10,000 more than 26,781 is 36,781.

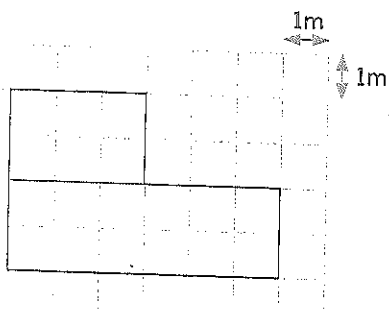
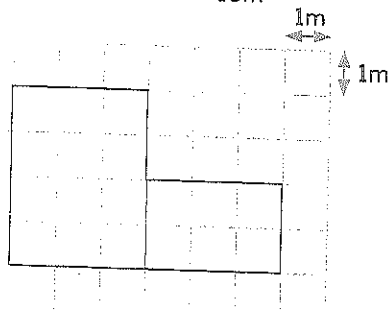
20,895 is 1,000 more than 19,895.

100 less than 19,934 is 19,834.

Award 1 mark for all three correct answers.

Test 21: Mixed (page 52) continued

- 3 18m^2
 Accept either
 Area = $4 \times 3 + 2 \times 3 = 18\text{m}^2$
 or
 Area = $6 \times 2 + 3 \times 2 = 18\text{m}^2$



Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

- 4 a) Peter gets the most change.
 $\pounds 1.80 \times 3 = \pounds 5.40$ Change = $\pounds 10 - \pounds 5.40 = \pounds 4.60$
 $\pounds 2.35 \times 2 = \pounds 4.70$ Change = $\pounds 10 - \pounds 4.70 = \pounds 5.30$
 Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
 b) $\pounds 5.30 - \pounds 4.60 = 70\text{p}$ 1 mark

5 $\frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$ ✓
 $\frac{1}{6} \div 2 = \frac{1}{3} \times (\frac{1}{6} \div 2 = \frac{1}{12})$
 $\frac{1}{6} \div \frac{1}{2} = \frac{2}{8} \times (\frac{1}{6} \div \frac{1}{2} = \frac{4}{6})$

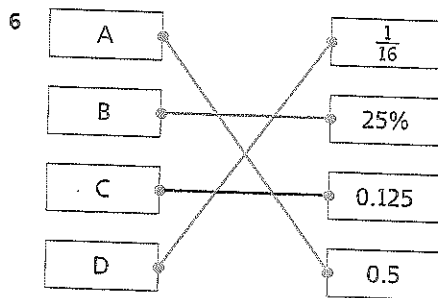
Award 1 mark for all three marked correctly.

- 6 100°
 Accept between 99° and 101° . 1 mark
 7 10 and 60 1 mark

Test 22: Mixed (page 54)

- 1 a) $c - 4 = 3b$ and $3b + 4 = c$ 1 mark
 b) $b = 1$ $c = 7$
 or
 $b = 0$ $c = 4$ 1 mark
 2 $\pounds 7.20 - \pounds 1.89 = \pounds 5.31$ 1 mark
 3 700 hours > 4 weeks
 2 days = 2,880 minutes 1 mark
 4 25 boxes
 $147 \div 6 = 24$ remainder 3 1 mark
 5 a) Volume of box A = $6 \times 6 \times 6 = 216\text{cm}^3$ 1 mark
 b) Area of the base of box B = $5 \times 2.4 = 12\text{cm}^2$
 Height = $216 \div 12 = 18\text{cm}$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

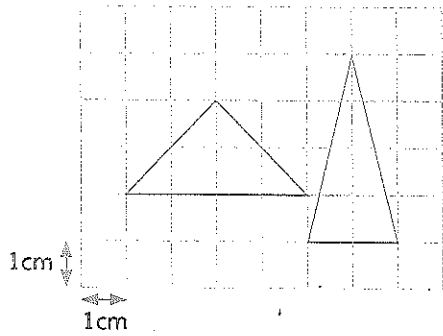


Award 1 mark for one line drawn correctly or 2 marks for all three lines drawn correctly.

Test 23: Mixed (page 56)

- 1 5,420 1 mark
 2 a) The answer to the calculation 805×40 is close to $800 \times 40 = 32,000$. 1 mark
 b) The answer to the calculation 47×32 is close to $50 \times 30 = 1,500$. 1 mark
 3 B and C 1 mark
 4 $13 \times 6 = 78$
 or
 $6 \times 13 = 78$ 1 mark
 5 a) $\frac{1}{6}$ packet
 Jess ate $\frac{2}{3}$ of a packet, leaving $\frac{1}{3}$ of the packet.
 $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$
 or
 $\frac{1}{3} \div 2 = \frac{1}{6}$
 Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.
 b) $6 \times 6 = 36$ cookies 1 mark

6 Accept either of the following triangles:



The triangles can be in any position or orientation on the grid, as long as they are the correct size.

1 mark

7 If you count forwards in steps of 100 from 37, will you land on 3,700? \times
If you count backwards in sixes from 100, will you land on 16? \checkmark

1 mark

Test 24: Mixed (page 58)

1 $8 \div 4 + 7 = 9$

1 mark

2 41×6

or

14×6

1 mark

3 70

$62 \times 5 = 310$

$310 - 240 = 70$

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.

4 30 tables

$178 \div 6 = 29$ remainder 4

1 mark

5 3.5 or $3\frac{1}{2}$

$4 \div 8 = 0.5$

$0.5 + 3 = 3.5$

or

$4 \div 8 = \frac{1}{2}$

$\frac{1}{2} + 3 = 3\frac{1}{2}$

1 mark

6 1

1 mark

7 a) $\frac{2}{5} = 40\%$

1 mark

b) 100 jumpers

$\frac{2}{5} \times 2 = \frac{4}{5}$

$1 - \frac{4}{5} = \frac{1}{5}$

$\frac{1}{5} = 20$, so total number of jumpers = $20 \times 5 = 100$

or

$40\% \times 2 = 80\%$

$100\% - 80\% = 20\%$

$20\% = 20$

$100\% = 20 \times 5 = 100$ jumpers

Award 1 mark for correct working or 2 marks for the correct answer with appropriate working.