

Circle the correct answer for each question.

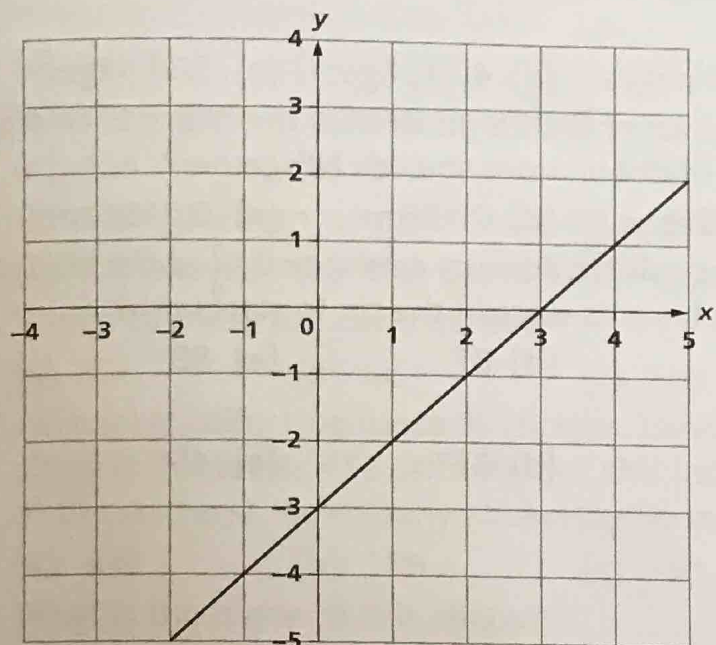
- 1 The attendance at a football match at Wembley Stadium was given as 88 000, to the nearest 1000
The actual attendance figure is given below. Which one is it? (1)
(a) 87 241 (b) 88 748 (c) 88 500 (d) 88 237 (e) 88 501
- 2 John trains with his local running club on a 400 m running track. This week John needs to run 10 km. How many laps of the track is this? (2)
(a) 10 (b) 15 (c) 20 (d) 25 (e) 30
- 3 An alarm flashes intermittently to show that it is working. It flashes at 08:00 and then at 20-second intervals. How many times will it flash between 08:00 and 10:00? (3)
(a) 180 (b) 240 (c) 360 (d) 361 (e) 480
- 4 A farmer keeps pigs and chickens. He has 32 animals altogether and the animals have a total of 80 legs. How many chickens does the farmer have? (5)
(a) 16 (b) 18 (c) 8 (d) 14 (e) 24
- 5 Which shape is in the wrong part of the Carroll diagram? (1)
(a) Square (b) Rectangle (c) Equilateral triangle
(d) Isosceles triangle (e) Kite

	At least one pair of parallel sides	No parallel sides
All sides same length	Square	Equilateral triangle
Not all sides same length	Kite Rectangle	Isosceles triangle

- 6 Which one of these events will certainly happen? (1)
(a) I will get something wrong tomorrow.
(b) My brother's favourite team will win soon.
(c) Tuesday will follow Monday.
(d) The total of two dice will be 13
(e) It will rain during the summer.
- 7 What is $\frac{3}{4}$ of 92? (1)
(a) 76 (b) 69 (c) 72 (d) 78 (e) 63
- 8 What is 89×32 ? (1)
(a) 2884 (b) 2848 (c) 2448 (d) 2284 (e) 2484
- 9 What is $1376 \div 16$? (1)
(a) 48 (b) 86 (c) 74 (d) 60 (e) 68

10 What is the equation of the line shown on the graph?

(2)



- (a) $y = x + 1$ (b) $y = 2x + 1$ (c) $y = x - 2$ (d) $y = x - 3$ (e) $y = x - 1$

11 In a gymnastics club, there are 8 girls for every 3 boys. There are 55 children in the club. How many boys are there?

(3)

- (a) 15 boys (b) 40 boys (c) 11 boys (d) 20 boys (e) 24 boys

12 When making blackcurrant squash, Margaret mixes 1 part of the concentrate with 15 parts of water. How much concentrate does she use to make 160 litres of blackcurrant squash?

(2)

- (a) 10 litres (b) 15 litres (c) 18 litres (d) 20 litres (e) 21 litres

13 Which percentage is equivalent to the fraction $\frac{170}{250}$?

(2)

- (a) 17% (b) 34% (c) 42% (d) 68% (e) 85%

14 What do you need to add to 7.67 to make 34.45?

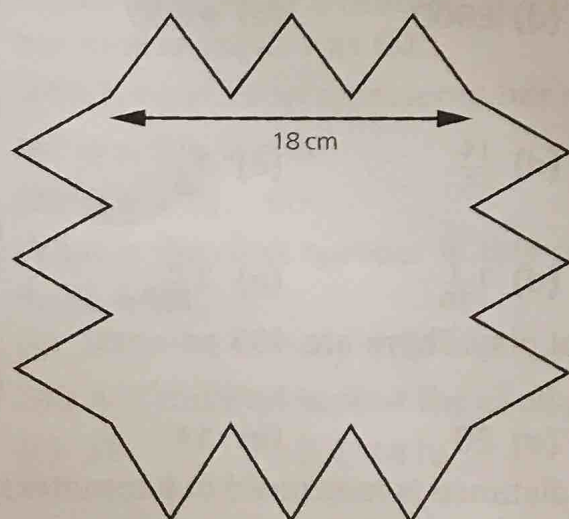
(1)

- (a) 42.12 (b) 23.48 (c) 27.48 (d) 24.78 (e) 26.78

15 The shape shown is made up of 3 equilateral triangles on each side of a square that has sides of 18 cm. What is the perimeter of the shape?

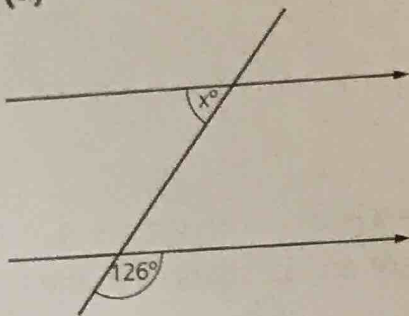
(2)

- (a) 144 cm (b) 72 cm (c) 24 cm (d) 108 cm (e) 100 cm



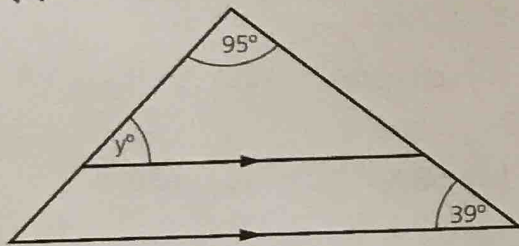
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- 16 Arjun is reading a book. He has read 135 pages, which is $\frac{3}{8}$ of the book. How many pages does the book have altogether? (2)
- (a) 450 pages (b) 360 pages (c) 320 pages (d) 400 pages (e) 380 pages
- 17 Mellissa is putting a medal on a ribbon for each of the 28 junior club members. Each piece of ribbon is 70 cm long. How many metres of ribbon does she use altogether? (2)
- (a) 19.6 m (b) 196 m (c) 1.96 m (d) 0.196 m (e) 0.0196 m
- 18 There are between 80 and 90 biscuits in a biscuit tin. Tommy eats exactly $\frac{1}{4}$ of the biscuits and Billy eats exactly $\frac{1}{7}$ of them. How many biscuits were in the tin to start with? (2)
- (a) 81 (b) 84 (c) 85 (d) 87 (e) 89
- 19 What is the size of angle x ? (2)
- (a) 74° (b) 126° (c) 54° (d) 63° (e) 45°



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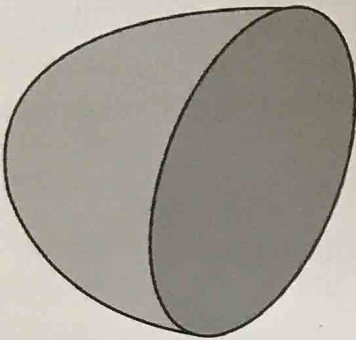
- 20 What is the size of angle y ? (2)
- (a) 39° (b) 61° (c) 85° (d) 46° (e) 44°



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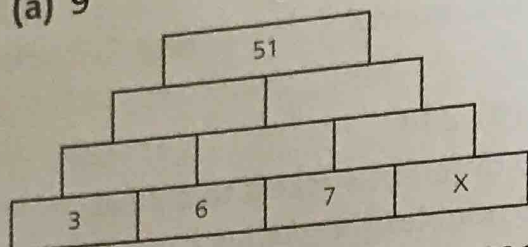
- 21 George is going on holiday to the USA. He wants to take \$900 dollars with him. The exchange rate is £1 buys \$1.45. How much will this cost him, to the nearest pound? (2)
- (a) £1305 (b) £621 (c) £620 (d) £900 (e) £600
- 22 What is $\frac{3}{5} + \frac{2}{6}$? (3)
- (a) $\frac{4}{5}$ (b) $\frac{5}{6}$ (c) $\frac{14}{30}$ (d) $\frac{14}{15}$ (e) $1\frac{1}{5}$
- 23 What is $1\frac{3}{4} - \frac{2}{5}$? (2)
- (a) $1\frac{1}{4}$ (b) $1\frac{7}{20}$ (c) $1\frac{1}{5}$ (d) $1\frac{1}{10}$ (e) $1\frac{3}{20}$
- 24 Chairs are being set out in rows of 26 for the school play. There are 403 parents coming. How many rows of chairs are needed? (2)
- (a) 16 (b) 15 (c) 26 (d) 20 (e) 14
- 25 Khalid is running a marathon in Europe and so the distance is measured in kilometres, rather than miles. He gets to the 18 km mark. How far has Khalid run in miles? (1)
- (1 mile = 1.6 km)
- (a) 28.8 miles (b) 11.25 miles (c) 16 miles (d) 12 miles (e) 14 miles

- 26 A burger van outside a football ground sells 158 burgers for £3 each on match day?
How much money do they take? (1)
(a) £474 (b) £553 (c) £316 (d) £632 (e) £550.50
- 27 Which of these is a square number? (1)
(a) 404 (b) 200 (c) 225 (d) 1000 (e) 250
- 28 What are the common factors of 20 and 36? (2)
(a) 1, 2 and 4 (b) 1, 2, 3 and 4 (c) 1, 3 and 4 (d) 1 and 2 (e) 1, 2, and 5
- 29 Which of these is a cube number? (2)
(a) 25 (b) 66 (c) 125 (d) 218 (e) 121
- 30 Michael is collecting football stickers. There are 640 different stickers to collect altogether. He has 452 stickers, but this includes 63 doubles (i.e. he has 2 copies of 63 of the stickers). How many stickers is he missing? (2)
(a) 389 (b) 188 (c) 251 (d) 577 (e) 252
- 31 What is the name of this shape? (1)
(a) Cone (b) Prism (c) Sphere (d) Hemisphere (e) Cylinder



- 32 What is the output when 9 is put through this function machine? (2)
 $9 \rightarrow -5 \rightarrow \times 6 \rightarrow ?$
(a) 4 (b) 24 (c) 64 (d) 49 (e) 180
- 33 $\frac{y}{3} + 7 = 12$
What is the value of y ? (3)
(a) 12 (b) 5 (c) 15 (d) 57 (e) 9
- 34 Violet thought of a number, w . When she added 9 and then multiplied the result by 5, her final number was 60
Which expression represents her result? (2)
(a) $w \times 9 + 5 = 60$ (b) $w - 5 \times 9 = 60$ (c) $w \times 5 + 9 = 60$
(d) $5(w + 9) = 60$ (e) $5(w - 9) = 60$
- 35 What is the next number in this sequence? (1)
4, 16, 64, _____
(a) 80 (b) 100 (c) 256 (d) 86 (e) 106
- 36 Use any method to find the product of 59 and 24 (1)
(a) 35 (b) 1416 (c) 1286 (d) 1524 (e) 1466

- 37 Use these clues to work out Penelope's favourite number.
 • It is between 50 and 90
 • It is a multiple of 8
 • It is also a multiple of 6
- (a) 56 (b) 64 (c) 72 (d) 80 (e) 96
- 38 In this brick pyramid, the number on each brick is the sum of the numbers on the two bricks supporting it. What is the number on the brick marked x ?
- (a) 9 (b) 12 (c) 7 (d) 5 (e) 11



- 39 What is the remainder when 2206 is divided by 6?
 (a) 1 (b) 2 (c) 3 (d) 4 (e) 5
- 40 Three walkers are carrying water. One is carrying 330 ml, another is carrying 1500 ml and the third is carrying 850 ml. How much water do they have in total?
 (a) 1680 ml (b) 2580 ml (c) 2860 ml (d) 2680 ml (e) 2880 ml
- 41 Petra is running on a track and wants to work out her running speed. She thinks that she can calculate her speed by dividing the distance she runs by the time it takes her. What is her speed if she runs 100 metres in 25 seconds?
 (a) 10 m/s (b) 5 m/s (c) 4 m/s (d) 2.5 m/s (e) 2 m/s
- 42 In the equation $w - x + y = 30$, w is three times x and y is one-third of w . What is the value of x ?
 (a) 5 (b) 8 (c) 10 (d) 15 (e) 20
- 43 $9 \times (11 - a) = 36$
 What is the value of a ?
 (a) 5 (b) 6 (c) 7 (d) 8 (e) 9
- 44 $45 \div (j \times 3) = 3$
 What is the value of j ?
 (a) 7 (b) 8 (c) 5 (d) 4 (e) 15
- 45 What is the next number in this sequence?
 121 107 94 82 _____
 (a) 71 (b) 80 (c) 68 (d) 69 (e) 70
- 46 The difference between two numbers is 37
 The smaller number is 146
 What is the larger number?
 (a) 109 (b) 173 (c) 119 (d) 183 (e) 194
- 47 Which multiplication in this multiplication square is incorrect?

\times	7	5	8	3
4	28	20	32	12
9	63	45	72	27
6	42	30	46	18
12	84	60	96	36

- (a) 7×4 (b) 8×6 (c) 7×12 (d) 8×9 (e) 5×12

- 48 Which number between 100 and 130 is a multiple of both 8 and 7? (2)
 (a) 126 (b) 128 (c) 112 (d) 102 (e) 108
- 49 What is $(4 + 3 \times 3^2 - 12) \times 3$? (4)
 (a) 153 (b) 180 (c) 27 (d) -108 (e) 57
- 50 What is $18 + 6 \times 2 - 10 \div 5$? (4)
 (a) 28 (b) 6.6 (c) 46 (d) 7.2 (e) 24
- 51 What is the next number in this sequence? (1)
 144 135 126 _____
 (a) 115 (b) 117 (c) 135 (d) 119 (e) 114
- 52 Two apples and a pear cost 80p. Three apples and a pear cost £1.06 (3)
 What is the cost of a pear?
 (a) 26p (b) 27p (c) 28p (d) 25p (e) 30p
- 53 What is the next number in this sequence? (1)
 0 3 8 15 _____
 (a) 22 (b) 20 (c) 18 (d) 24 (e) 25
- 54 What is the missing number in this number sentence? (2)
 $(23 \times 12) + \text{_____} = 302$
 (a) 20 (b) 26 (c) 25 (d) 30 (e) 28
- 55 What is the missing number in this number sentence? (2)
 $28 \times (23 - \text{_____}) = 532$
 (a) 8 (b) 15 (c) 4 (d) 19 (e) 20
- 56 Work out 1026×3 (1)
 (a) 3708 (b) 3078 (c) 3088 (d) 4087 (e) 4078
- 57 Share 7630 equally among 5 (1)
 (a) 1432 (b) 1650 (c) 1426 (d) 1526 (e) 1320
- 58 What are the missing operations in this calculation? (2)
 $9 \text{ _____ } 3 \text{ _____ } 1 = 7 \text{ _____ } 5 \text{ _____ } 7$
 (a) $\times, \times, \times, -$ (b) $\times, -, \times, -$ (c) $\times, +, \times, -$ (d) $+, \times, -, \times$ (e) $\times, \times, \times, \times$
- 59 Violet is thinking of a number, v . Rose is thinking of a number that is 7 less than Violet's number. Which expression shows Rose's number, r ? (1)
 (a) $r = v + 7$ (b) $r = v - 7$ (c) $v = r - 7$ (d) $v = r + 7$ (e) $r = v$
- 60 Ted thinks of a number. He divides it by 6 and then subtracts 4 (2)
 The result is 3
 What was Ted's original number?
 (a) 6 (b) 1 (c) 6 (d) 36 (e) 42