

- 1) There are 297 children at East School. 139 are girls.
How many boys are there at East School?

ANSWER: _____

- 2) Which of the following is most likely to be the weight of a bag of sugar?

- A 10 kg
- B 1 kg
- C 100 kg
- D 1 litre
- E 1 mm

- 3) What value does the digit 4 represent in 123.45?

- A 4 hundreds
- B 4 thousands
- C 4 tenths
- D 4 hundredths
- E 4 units

- 4) What is this shape called?

- A Cylinder
- B Cuboid
- C Tube
- D Cube
- E Rectangle

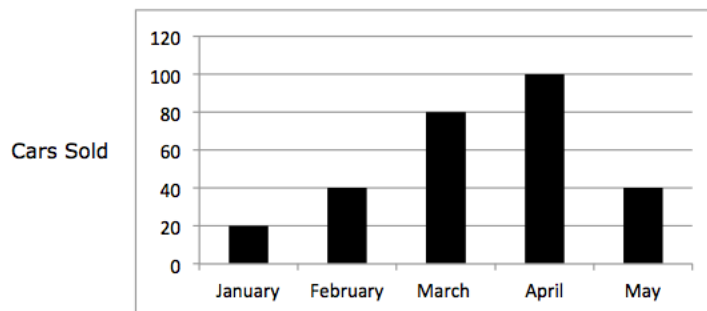


- 5) John and Tim share 245 sweets in the ratio of 2 to 5.
How many sweets does Tim receive?

6) 26 children decided to raise money for charity. The average amount raised by each child was £31. How much money did they raise in total?

- A £758
- B £806
- C £1.19
- D £248
- E £57

7) This chart shows the number of cars sold each month by 'Tony's Car Shop'. How many more cars were sold in April than in February?



ANSWER: _____

8) Which of these words has a horizontal line of symmetry?

- A YUP
- B HUH
- C DEP
- D VQA
- E HIO

9) A zoo has 39 monkeys. Two-thirds of the monkeys are brown. How many monkeys are not brown?

- A 13
- B 10
- C 39
- D 26
- E 0

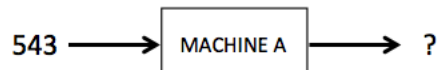
10) A rectangle has an area of 72 cm^2 .
Its length is 9 cm. What is the perimeter of the rectangle?

- A 8 cm
- B 18 cm
- C 27 cm
- D 34 cm
- E 16 cm

11) How many thirds are there in 27?

- A 9
- B 3
- C 27
- D 81
- E 54

12)



Machine A subtracts 8 and then divides by 5.
Which number comes out?

ANSWER: _____

13) Write the number 7.4558 to two decimal places.

- A 7.45
- B 7.50
- C 7.47
- D 7.40
- E 7.46

14) Seven years ago, Tim was x years old.
How old will Tim be in three years' time?

- A $x + 10$
- B $x + 3$
- C $x + 7$
- D $x - 10$
- E $x - 3$

- 15) All the students in West School are going on a school trip by coach.
There are 230 boys and 115 girls at West School.
Each coach holds 25 people.
How many coaches are needed to transport all the students?

ANSWER: _____

- 16) How many edges does a sphere have?

- A 3
- B 5
- C 0
- D 2
- E 8

- 17) A camel ate $\frac{5}{6}$ of a pile of nuts. If there were 42 nuts left, how many did the camel eat?

- A 70
- B 112
- C 42
- D 50
- E 14

- 18) This table shows the total sales made by three employees at a company.

	Dawn	Amy	Rob
November	£450	£543	£333
December	£123	£765	£893
January	£654	£820	£422

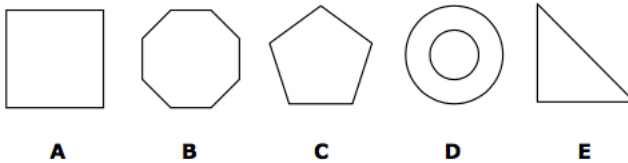
How much more was Dawn's January sale total than Rob's November sale total?

ANSWER: _____

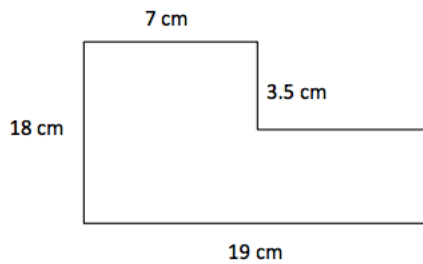
19) Which number is a factor of 56 and a multiple of 7?

- A 21
- B 8
- C 27
- D 35
- E 14

20) Which of these shapes does not have rotational symmetry?



21) What is the perimeter of this shape?



NOT DRAWN TO SCALE

ANSWER: _____

22) Tickets for the fair cost £3.50 for adults and £1.25 for children. If you buy two adult tickets, you get a child ticket for free.

How much does it cost for Mr. and Mrs. Jones and their two children to go to the fair?

ANSWER: _____

23) I think of a number, multiply it by 7, subtract 2 and then divide it by 9. The result is 6. What number did I think of?

ANSWER: _____

24) John buys a new computer. He receives a 15% discount off the original price. If the original price of the computer was £570, how much did John pay?

- A £85.50
- B £655.50
- C £484.50
- D £500
- E £513

25) What is the mode of the set of numbers below?

7 4 13 8 9 4 1 19 87 54 13 3 45 54 87 13 43 76 12 90 1

- A 13
- B 15
- C 54
- D 1
- E More information needed

26) $5g + 7y - 3z = p$

If $y = 12$, $z = 4$ and $g = 2$, what is p ?

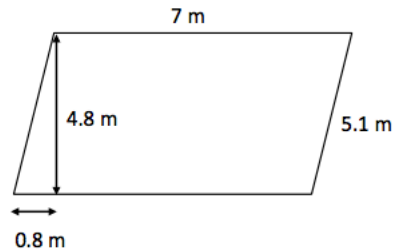
ANSWER: _____

27) What number is 37 less than the number indicated by the arrow on this number line?



- A 180
- B 175
- C 217
- D 145
- E 143

28)



What is the area of this parallelogram?

ANSWER: _____

29) In a class of 30 students, 17 wear glasses and 22 have brown hair.

What is the smallest possible number of students who don't wear glasses but do have brown hair?

- A** 13
- B** 8
- C** 5
- D** 0
- E** 30

30) The attendance of a football match was 34,500 rounded to the nearest 500. What is the difference between the largest and smallest possible attendances?

ANSWER: _____

31) 10 squirrels each have x cashew nuts and y peanuts.

What is the total number of nuts that the 10 squirrels own?

- A** $10x + 10$
- B** $10(x - y)$
- C** $10 + x + y$
- D** $10(x + y)$
- E** $x + y$

32) Which of these numbers is the smallest?

- A 0.808
- B 0.8081
- C 0.8079
- D 0.8088
- E 0.8087

33) I have a set of marbles. 7 are blue, 6 are red, 7 are green and 4 are yellow.

If I pick one marble at random, in which one of the following are **both** statements true?

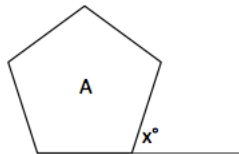
- A I have an even chance of picking a red marble.
I have a less than even chance of picking a green marble.
- B I have greater than even chance of picking a marble that is not blue.
I have a less than even chance of picking a marble that is orange.
- C I have a less than even chance of picking a green marble.
I have an even chance of picking a blue or red marble.
- D I have no chance of picking a pink marble.
I have an even chance of picking a yellow marble.
- E I have a less than even chance of picking a green or yellow marble.
I have a greater than even chance of picking a red marble.

34) $6^4 = ?$

- A $6 \times 6 \times 6$
- B $4 \times 4 \times 4 \times 4 \times 4 \times 4$
- C $6 \times 6 \times 6 \times 6$
- D 6×4
- E $4 \times 4 \times 4 \times 4$

35) Shape A is a regular pentagon.

What is the measure of the angle marked x ?



ANSWER: _____

36) What is the next number in this sequence?

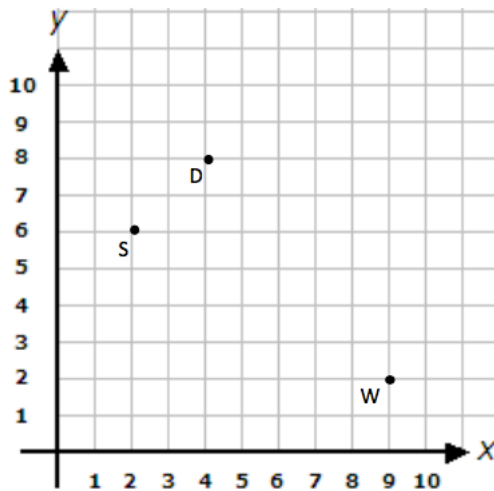
36 37 41 50 66

ANSWER: _____

37) Which one of these calculations gives the answer 16?

- A $\frac{1}{2}$ of 33
- B 25% of 70
- C 0.3 of 30
- D $\frac{1}{6}$ of 96
- E $\frac{3}{4}$ of 20

38)



What are the coordinates of S, D and W?

- A S (6,2) D (4,8) W (9,2)
- B S (2,6) D (8,4) W (9,2)
- C S (2,6) D (4,8) W (9,2)
- D S (2,6) D (4,8) W (2,9)
- E S (6,2) D (8,4) W (2,9)

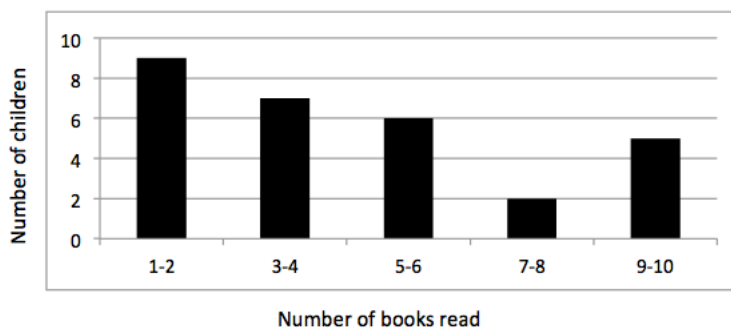
39) I draw a shape. It has exactly 2 pairs of parallel sides and exactly 2 lines of symmetry.
Which shape could I have drawn?

- A Square
- B Circle
- C Trapezium
- D Rectangle
- E Parallelogram

40) A map is drawn on a scale of 1:600,000.
What real distance is represented by 1 cm on the map?

- A 6,000 km
- B 0.6 km
- C 60 km
- D 600 km
- E 6 km

41) This chart shows the number of books read by some children during the holidays.



How many children read less than 7 books?

ANSWER: _____

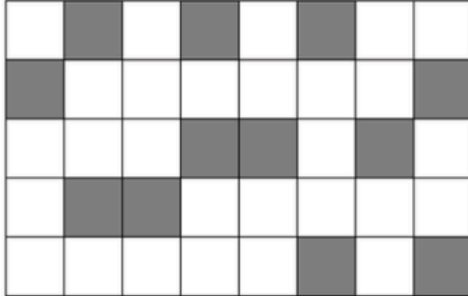
42) An isosceles triangle has angles F, G and B.
Angle B measures 70° .
Angle G measures 40° .
What is the size of angle F?

ANSWER: _____

43) Which of the following is true?

- A $7.8 \times 10 > 78$
- B $4.3 \div 10 > 0.43$
- C $65 > 650 \div 100$
- D $87 \times 10 = 871$
- E $13 \times 10 < 129$

44)



Each of these grey and white tiles measures $75 \text{ cm} \times 75 \text{ cm}$.
What is the total area covered in grey tiles, in square metres?

ANSWER: _____

45) $(13 \times 15) - 18 = 177$

Which of the following is correct?

- A** $177 - 18 = 13 \times 15$
- B** $177 - 13 = 18 \times 15$
- C** $177 \div (13 \times 15) = 18$
- D** $18 = (13 \times 15) - 177$
- E** $15 - 18 - 13 = 177$

46) How many more edges than faces does a cube have?

ANSWER: _____

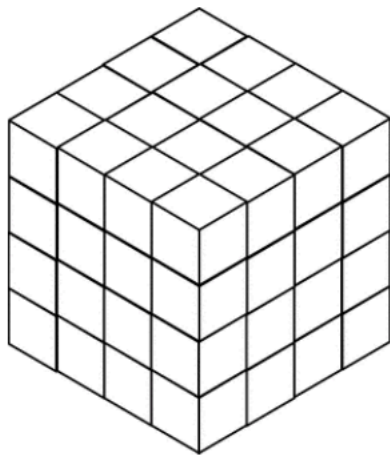
- 47) Ben is 1.85 m tall, Clare is 1.49 m tall and Diane is 123 cm tall.
What is the range of their heights in centimetres?

ANSWER: _____

- 48) The base of a triangle is 8 cm and the height is 7 cm.
What happens to the area of the triangle if I double both the base and the height?

- A** The area doubles.
- B** The area halves.
- C** The area quadruples.
- D** The area triples.
- E** The area stays the same.

- 49) Below is a diagram of a large cube made from small, identical cubes.
If I paint the outside of the shape red, how many of the small cubes will have exactly two faces painted red?



ANSWER: _____

50) John works as a machine salesman. He earns £350 per week plus 15% of the price of every machine he sells. Machines are priced at £30 each.
If John sells 20 machines every day, how much money does he earn in a fortnight?

ANSWER: _____