1) What is the next number in this sequence?

7 10 17 27 44 71 ?

A	7
B	44
C	81
D	115

2) There are four dozen coins in a jar.
If five children each remove seven coins from the jar, how many coins are left?

_____

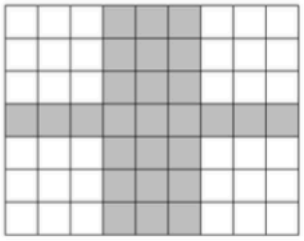
3) A taxi charges *E* pounds for the first mile of a journey and then *U* pence for each additional mile.
Write an expression, in terms of *E* and *U*, to show how much a 6-mile journey would cost in pence.

_____

4) If X is an odd number, which of the following must also be an odd number?

A	$X + 1$
B	$X - 5$
C	$3X$
D	$5X + 3$

5) This flat rectangle measures 18 cm by 14 cm.
The unshaded corners are cut out and it is then folded to make a small open box.
What is the volume of this box?



_____

6) What is the range of these numbers?

76.892 32.928 12.988 38.918 82.183

_____

7) 15 people attended Claire's birthday party.
On average they ate 1⅗ pizzas each.
How many pizzas were eaten in total?

_____

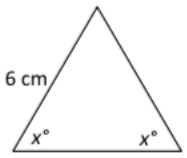
8) For which of the following can you calculate the exact probability?

A	It will rain next month.
B	Sam will go on holiday next year.
C	Ben will eat vegetables next week.
D	Tom will score a 3 when he rolls a fair die.

9) When 19 is divided by the integer G, the remainder is 4.
How many different values of G are possible?

_____

10)



$x = 60°$

Calculate the perimeter of the triangle.

_____

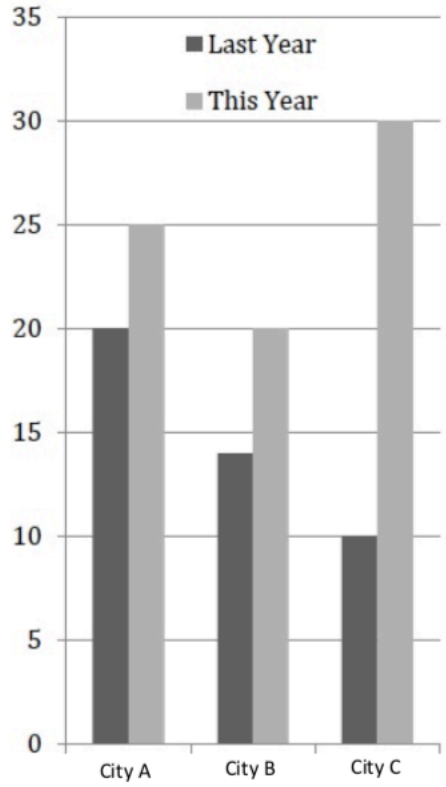
11) Tim brought 180 cookies to a meeting.
By the end of the meeting, 72 cookies were eaten.
What percentage of cookies were uneaten?

_____

12) Which of the following is closest to 0.32 x 89?

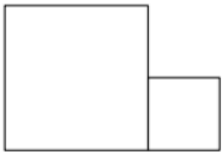
A	½ of 50
B	⅓ of 90
C	⅔ of 60
D	⅜ of 30

13) The chart below shows the number of road accidents that took place in three cities.
What was the average number of road accidents this year?



_____

14) This figure consists of two squares.
One square has a side length of 4 cm and the other has a side length of 9 cm.
What is the perimeter of the figure?

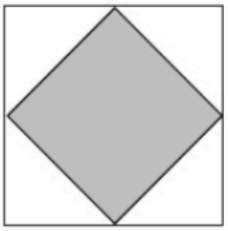


_____

15) If H is a positive integer, which of the following expressions has the largest value?

A	$-H$
B	$H - 7$
C	$-H + 7$
D	$H + 6$

16) In this figure, four line segments are drawn between the midpoints of the sides of a large square to make a smaller shaded square.
If the area of the large square is y, what is the area of the small square?



A	$2y$
B	$y/2$
C	y
D	$y/4$

17) 3,829 - 2,342.48 =

_____

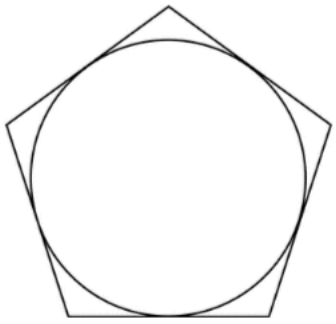
18) Bob thinks of an integer that is greater than 0 and less than 30.
What is the probability that Bob's integer is both a square number and a cube number?

_____

19) What is the lowest common multiple of 3 and 12?

_____

20) The area of the circle is 90% of the area of the pentagon.
If the area of the pentagon is *V*, what is the area of the circle in terms of *V*?



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