1. A school bought a total of 80 notebooks and pens for students.

If the total cost was $300, which option is NOT possible cost for notebook and pen?

A) Each notebook costs $5 and each pen costs $2
B) Each notebook costs $6 and each pen costs $3
C) Each notebook costs $7 and each pen costs $2
D) Each notebook costs $4 and each pen costs $3

(Correct +3, Wrong 0, Blank 0)

2. How many multiples of 7 are there in the range of numbers 1 to 100?

A) 12
B) 15
C) 13
D) 14

(Correct +3, Wrong 0, Blank 0)

3. The area of a triangle is 60 cm^2 and the length of its base is 10 cm.
What is the height of the triangle?

A) 16 cm
B) 10 cm
C) 12 cm
D) 14 cm

(Correct +3, Wrong 0, Blank 0)

4. The weights of 5 students are: 40 kg, 38 kg, 42 kg, 39 kg, and 41 kg.
What is their average weight?

A) 50 kg
B) 45 kg
C) 35 kg
D) 40 kg

(Correct +3, Wrong 0, Blank 0)

5. **Find the sum:**
135 + 240 + 189 + 436 = ____

A) 1000
B) 1050
C) 1070
D) 1020

(Correct +3, Wrong 0, Blank 0)

6. Rina has 3 apples and 6 oranges.

If Budi has 2 apples, **how many oranges should Budi have so that the ratio is the same as Rina's?**

A) 6
B) 3
C) 5
D) 4

(Correct +3, Wrong 0, Blank 0)

7. Ali has 3 times as many coins as Rina.

If together they have 48 coins, **how many coins does Ali have?**

A) 34
B) 36
C) 30
D) 32

(Correct +3, Wrong 0, Blank 0)

8. Komo has 3 different shirts (red, blue, green) and 2 different pants (black, cream-coloured).

How many ways can Komo choose one shirt and one pair of pants?

A) 6
B) 8
C) 1
D) 2

(Correct +3, Wrong 0, Blank 0)

9. Alya has a box containing 3 animation character stickers, 2 superhero stickers, and 1 cute animal sticker. She picks 1 sticker at random from the box. **What is the probability that Alya picks a sticker that is not a superhero?**

A) $\frac{2}{3}$
B) $\frac{3}{4}$
C) $\frac{1}{2}$
D) $\frac{5}{6}$

(Correct +3, Wrong 0, Blank 0)

10. Last month Jean's weight ratio to Jamie was 9:7 and Jean's weight ratio to Ray was 3:2. They re-measured their weights today and found that only Jamie had gained weight.

If Ray's weight is 60 kg**, what is the weight ratio of Jean to Jamie now if Jamie has gained 4 kg?**

A) 9 : 8
B) 8 : 9
C) 37 : 45
D) 45 : 37

(Correct +3, Wrong 0, Blank 0)

11. There are three consecutive natural numbers. If these three numbers are added up, the result is 42.

The smallest number is _____.

A) 12
B) 14
C) 13
D) 15

(Correct +3, Wrong 0, Blank 0)

12. A farmer has three types of animals on his farm: cows, sheep, and goats. The ratio of cows to sheep is 3:5, and the ratio of sheep to goats is 4:7.
If there are at least 100 animals on the farm, **which of the following could be the total number of animals?**

A) 105
B) 134
C) 148
D) 117

(Correct +3, Wrong 0, Blank 0)

13. A five-digit number is formed using only the digits 1, 2, 4, 8, and 0, with each digit used exactly once.

What is the amount of possible formed numbers that are divisible by 4?

A) 44
B) 48
C) 40
D) 50

(Correct +3, Wrong 0, Blank 0)

14. Seven years ago, Ana was three times as old as Cika.

If Cika is turning nineteen years old this year, **how old will Ana be next year?**

A) 43 years old
B) 58 years old
C) 44 years old
D) 57 years old

(Correct +3, Wrong 0, Blank 0)

15. A scientist is observing the growth of bacteria. For each bacteria it will divide into 2 every 10 minutes. However, due to a work error, 5 bacteria will die before dividing.

How many bacteria will there be after 1 hour if the initial number of bacteria is 30 bacteria?

A) 650
B) 960
C) 1920
D) 1290

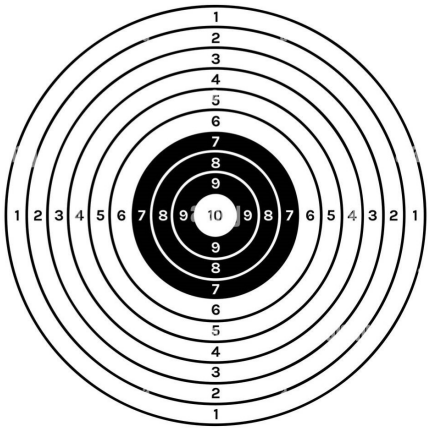
(Correct +3, Wrong 0, Blank 0)

16. Rani has 5 cards numbered 1, 2, 3, 4, and 5.
If one card is picked at random, what is the probability that Rani gets a card with an odd number?

A) 50%
B) 60%
C) 70%
D) 40%

(Correct +3, Wrong 0, Blank 0)

17. In an archery competition, each shot scores a whole number from 1 to 10, and each score is equally likely.



(Source of picture: alamy.com)

To win a gold medal in the archery Olympics, an athlete must score at least 7 points on each shot.

If the athlete is given chance to shots 3 attempts, what is the probability of the athlete winning a gold medal?

A) above 10%
B) less than 1%
C) between 5% and 10%
D) between 1% and 5%

(Correct +3, Wrong 0, Blank 0)

18. The average (arithmetic mean) of five distinct positive integers is 15. The median (the middle/third number) of these five numbers is 14.

What is the maximum possible value of difference between the largest and smallest numbers?

A) 43
B) 44
C) 45
D) 42

(Correct +3, Wrong 0, Blank 0)

19. A quadrilateral has sides measuring 5 cm, 8 cm, 5 cm, and 8 cm in that order.

If the shape is neither a rectangle nor a square, what type of quadrilateral is it? Also, what is its perimeter?

A) Trapezium, 40cm
B) Parallelogram, 40cm
C) Parallelogram, 26cm
D) Trapezium, 26 cm

(Correct +3, Wrong 0, Blank 0)

20. Siti collects 45 marbles in 3 days. Each day she collects 3 more marbles than the previous day.

How many marbles did Siti collect on the first day?

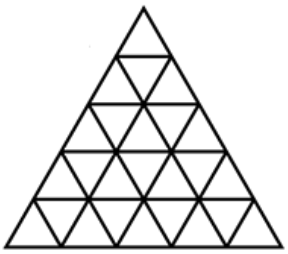
A) 12
B) 8
C) 3
D) 4

(Correct +3, Wrong 0, Blank 0)

21. Each table has 4 legs.
How many legs are there in 120 tables? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

22. An equilateral triangle is partitioned into 25 congruent small equilateral triangles.
The number of equilateral triangles that can be formed by joining 1 or more adjacent small triangles is ... (Write your answer only in numbers.)



(Correct +4, Wrong 0, Blank 0)

23. A factory produces two types of toys: cars and robots. The ratio of the number of cars to the number of robots produced in a day is 5:3. One day, after selling some amount of cars and robots, the ratio of the remaining cars to robots become 3:2. It is known that the number of sold cars is three times of sold robots.

What are the minimum amount of cars did the factory originally produce that day? (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

24. A bookstore sells two types of pens: red pens and blue pens. The price of 3 red pens and 5 blue pens together is $29, while the price of 4 red pens and 2 blue pens together is $20. One day, a customer buys **x** amount red pens and **y** amount blue pens, paying exactly $50.

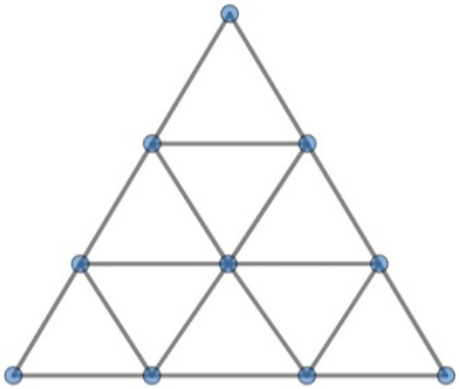
How many pairs of values of x and y are possible for this case? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

25. Bayu and Rani are playing a number puzzle. Bayu says, "If you add 2 to my age and multiply it by 2, you'll get Rani's age."
If their total age is **22 years**, **how old is Rani? (Write your answer only in numbers.)**

(Correct +4, Wrong 0, Blank 0)

26. **How many parallelogram are there in the shape below? (Write your answer only in numbers.)**



(Correct +4, Wrong 0, Blank 0)

27. PQRS is a rectangle with an area of 60 m^2. It is divided into 6 smaller rectangles of equal area. **What is the area of 4 such smaller rectangles, in m^2?** (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

28. **How many natural numbers are there which are less than 200 and their digits add up to 7? (Write your answer only in numbers.)**

(Correct +4, Wrong 0, Blank 0)

29. In each second, an ant can move 1 unit east, west, north or south.

The number of possible end points with respect to the starting point of the ant after moving for 9 seconds is ... (Write your answer only in numbers.)

(for example after 1 second there are 4 possible end points, 1 unit north, or east or west or south of the starting point)

(Correct +4, Wrong 0, Blank 0)

30. In a school, there are 4 classes with the following number of students:

- Class A: 31 students
- Class B: 28 students
- Class C: 32 students
- Class D: 29 students

What is the average number of students per class? (Write your answer only in numbers.)

(Correct +4, Wrong 0, Blank 0)

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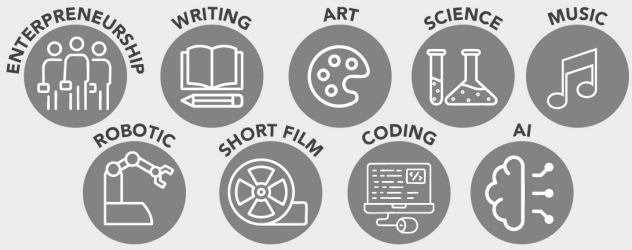

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Answer Keys

No	Key	Code
1	A	KMF/4127/GYIO4
2	D	KMF/4089/LLAML
3	C	KMF/4182/U5NLG
4	D	KMF/4183/GFTMG
5	A	KMF/4177/VSKIR
6	D	KMF/4176/EFWTI
7	B	KMF/4141/LFLNT
8	A	KMF/4095/FMJ0Z
9	A	KMF/4145/57GAQ
10	D	KMF/4071/QEBKL
11	C	KMF/4112/E1NXA
12	B	KMF/4122/ZDTSE
13	D	KMF/4124/PV0SZ
14	C	KMF/4022/ZCFIA
15	D	KMF/4058/ADLMC
16	B	KMF/4184/OUSTS
17	C	KMF/4064/OBFOR
18	D	KMF/4125/88OB2
19	C	KMF/4144/SSGYC
20	A	KMF/4140/UPFFH