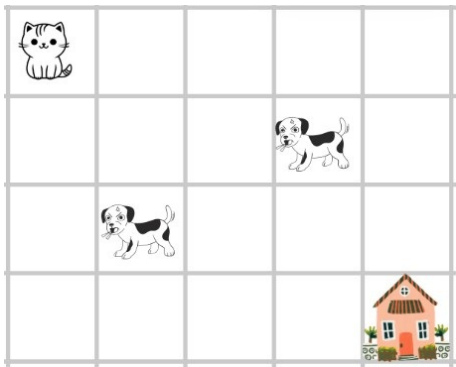


1. When rolling two standard six-sided dice, **what is probability that the sum of the two dice is 7?**

A) $\frac{1}{12}$
 B) $\frac{1}{9}$
 C) $\frac{1}{4}$
 D) $\frac{1}{6}$

(Correct +3, Wrong 0, Blank 0)

2. Lily the cat was playing outside during the day. When the sun started to go down, she wanted to get back home as quickly as she could. The picture below shows the path Lily can take on a grid of squares.



She can only move **right** or **down** at each step.

But there's a problem — some squares have unfriendly dogs, and Lily must avoid those squares!

How many different ways can Lily reach her home without stepping on a square with a dog?

A) 11
 B) 13
 C) 12
 D) 14

(Correct +3, Wrong 0, Blank 0)

3. The Komodo National Park management wants to predict the daily temperature changes for a week. If it rains on a day, the temperature the next day decreases by **0.3°C**. If the weather is sunny, the temperature the next day increases by **0.6°C**. From Monday to Friday, it rains for the first three days in a row, then the next two days are sunny.

If the temperature on Monday is **30.2°C**, **what is the temperature on Saturday?**

A) 29.5°C
 B) 30.5°C
 C) 30.7°C
 D) 29.7°C

(Correct +3, Wrong 0, Blank 0)

4. A rectangular swimming pool has a length that is twice its width.

If the width of the pool is 5 meters, what is the perimeter of the swimming pool in meters?

A) 15 meters
 B) 25 meters
 C) 20 meters
 D) 30 meters

(Correct +3, Wrong 0, Blank 0)

5. In a family of 4, the father is 39 years old and the mother is 32 years old.

If the first child was born when the mother was 20 years old and the second child was born 5 years later, **what is their average age now?**

- A) 12
- B) 22.5
- C) 22
- D) 7

(Correct +3, Wrong 0, Blank 0)

6. There are 3 consecutive integers with a mean of 7. **What is the largest number?**

- A) 7
- B) 9
- C) 6
- D) 8

(Correct +3, Wrong 0, Blank 0)

7. A box contains 5 black, 4 white, and 3 red marbles.

What is the probability of picking a white marble?

- A) $\frac{4}{15}$
- B) $\frac{1}{4}$
- C) $\frac{5}{12}$
- D) $\frac{1}{3}$

(Correct +3, Wrong 0, Blank 0)

8. The ratio of Ali's age to Budi's age is 3 : 5.

If Budi is 20 years old, **how old is Ali?**

- A) 15
- B) 8
- C) 18
- D) 12

(Correct +3, Wrong 0, Blank 0)

9. Look at the equations below.

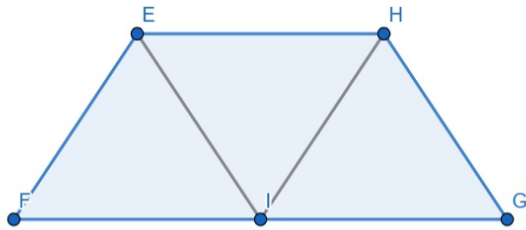
If $\triangle + 5 = 15$ and $\triangle + \square = 17$, then

what is the value of $\square \times 2$?

- A) 14
- B) 8
- C) 18
- D) 10

(Correct +3, Wrong 0, Blank 0)

10.



If $EH = FI = IG = 6$ and it is known that $EF = 5$. Calculate the area of the trapezium above!

- A) 90
- B) 72
- C) 45
- D) 36

(Correct +3, Wrong 0, Blank 0)

11. A teacher buys each of their students one burger costing \$6 and one glass of soda costing \$4.

If the teacher pays a total of \$600, how much money was spent only for soda?

- A) 360
- B) 10
- C) 60
- D) 240

(Correct +3, Wrong 0, Blank 0)

12. John has 12 fewer stickers than Mia.

If they have 50 stickers in total, how many stickers does Mia have?

- A) 31
- B) 25
- C) 19
- D) 35

(Correct +3, Wrong 0, Blank 0)

13. Leon wants to save money to buy a pair of shoes that costs \$50.

If Leon receives \$5 in pocket money each day, **how many days will it take for him to save enough money if he plans to save all of his pocket money?**

- A) 50 days
- B) 25 days
- C) 5 days
- D) 10 days

(Correct +3, Wrong 0, Blank 0)

14. A group of 5 friends has an average height of 130 cm.

If a new friend with a height of 140 cm joins the group, **what is the new average height of the 6 friends?**

- A) 131cm
- B) 131.67cm
- C) 132cm
- D) 135cm

(Correct +3, Wrong 0, Blank 0)

15. Nana has 5 bananas and 3 apples, Jeje has 6 bananas and 5 apples, while Jiu has 4 bananas and 4 apples.

What is the ratio between the average number of bananas and the average number of apples they have?

- A) 4 : 7
- B) 4 : 5
- C) 5 : 4
- D) 5 : 7

(Correct +3, Wrong 0, Blank 0)

16. A box contains 6 red marbles, 3 blue marbles, and 1 yellow marble.

If a student randomly picks one marble from the box, what is the probability that the marble picked is blue?

- A) $\frac{3}{10}$
- B) $\frac{2}{5}$
- C) $\frac{1}{3}$
- D) $\frac{1}{10}$

(Correct +3, Wrong 0, Blank 0)

17. Find the next term in the arithmetic sequence: 10, 16, 22, 28,...?

A) 37
B) 33
C) 32
D) 34

(Correct +3, Wrong 0, Blank 0)

18. A recipe requires 2 cups of flour for every 3 cups of milk.

If you use 9 cups of milk, how many cups of flour do you need?

A) 5 cups of flour
B) 4 cups of flour
C) 6 cups of flour
D) 7 cups of flour

(Correct +3, Wrong 0, Blank 0)

19. There are 25 chairs in a classroom. Due to student carelessness, 5 chairs were damaged on the first day of school. However, due to budget constraints, only 3 damaged chairs were replaced with new ones on the second day of school. **What is the difference between the probability of a chair being damaged on the first day and the probability of a chair being damaged on the second day?**

A) $\frac{5}{25}$
B) $\frac{3}{25}$
C) $\frac{7}{25}$
D) $\frac{2}{25}$

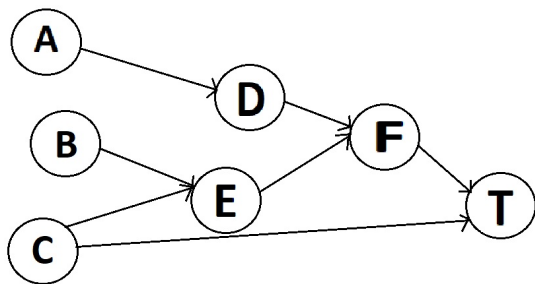
(Correct +3, Wrong 0, Blank 0)

20. There are three integers: 70, 5, and 7. If there are four types of operations: $+$, $-$, $\div$, and $\times$ that can be applied to these three integers, **how many digits are there in the result of the operation that gives the largest value, given that in each calculation only one type of operation is used with consecutive numbers?**

A) 3
B) 4
C) 5
D) 2

(Correct +3, Wrong 0, Blank 0)

21.



Starting from cities A, B and C, there are several routes passing through transit cities D, E and F, then arriving at city T as shown in the diagram. Travel is only allowed in the direction of the arrows. For example, one possible route is $A \rightarrow D \rightarrow F \rightarrow T$.

How many unique routes are there to reach city T?

(Correct +4, Wrong 0, Blank 0)

22.

To pass the math class, a student must achieve a minimum average score of 75 from 5 tests. Komo's scores on the first 4 tests are 73, 68, 80 and 67.

What minimum score does Komo need on the last test to pass the class? (Use numbers only)

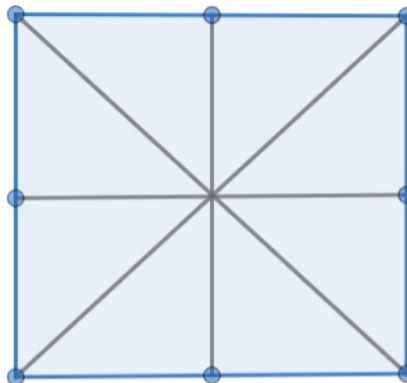
(Correct +4, Wrong 0, Blank 0)

23.

Andrea bought some fish to put in her new fish tank. She bought 15 fish with an average weight of 260 grams. Unfortunately, some of the fish were taken and eaten by her cat because she forgot to put a cover on top of the tank. Now, the average weight of the remaining fish is 240 grams. If the number of fish eaten by the cat is 4, **find the average weight of the eaten fish. (in grams)**

(Correct +4, Wrong 0, Blank 0)

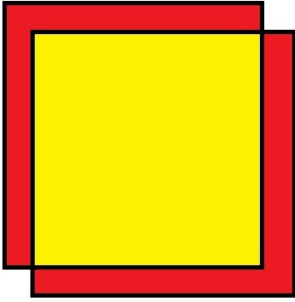
24.



How many triangles are formed from the shape above? (Write your answer only in numbers)

(Correct +4, Wrong 0, Blank 0)

25. Two identical squares are arranged so some of their part overlap with each other and create a smaller square (picture shown below)



The yellow region are the part where the squares overlap, and the red region are parts of the squares that do not overlap.

It is known that the area of the yellow region is **216 cm^2**

If the yellow part and the total area of the red parts area are equal, **find the length of the sides of the bigger square (in cm)**

(Correct +4, Wrong 0, Blank 0)

26. Find the value of x based on the equation :

$$5x - 8 = 32.$$

(Correct +4, Wrong 0, Blank 0)

27. On a farm there are 10 male cows and 12 female cows.

If each female cow gives birth to one calf, **how many cow's legs will there be on the farm?** (Write your answer only in numbers)

(Correct +4, Wrong 0, Blank 0)

28. In a laboratory experiment, solution ***X*** must be added to the sample in a ratio of 1:4 (volume of ***X*** : initial volume of sample) to cause a color change.

If the initial sample volume is 20 mL, and solution ***X*** is added slowly with a dropper at a rate of 1 drop every 2 seconds (20 drops = 1 mL), **how long will it take for the color change to occur?** (Write the answer using numbers only; answer in seconds)

(Correct +4, Wrong 0, Blank 0)

29. When we write all integers from 1 to 50, **how many times does the digit 4 appear?**

(Correct +4, Wrong 0, Blank 0)

30. A farmer harvested carrots and potatoes. The number of carrots was 120 more than the number of potatoes. The farmer then gave away half of the carrots and $\frac{1}{3}$ of the potatoes to a neighbor. After giving them away, the number of remaining carrots is exactly the same as the number of remaining potatoes.

How many potatoes did the farmer harvest initially?

(Write your answer only in numbers)

(Correct +4, Wrong 0, Blank 0)

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Answer Keys

No	Key	Code
1	D	KMF/4713/9ZIDH
2	A	KMF/4931/SKRHX
3	B	KMF/4738/BCTZ1
4	D	KMF/4941/KF78B
5	B	KMF/4753/KHWT9
6	D	KMF/4755/GY14F
7	D	KMF/4707/AKTYN
8	D	KMF/4710/UFD3
9	A	KMF/4911/5RFIW
10	D	KMF/4720/FR0JV
11	D	KMF/4718/ZX0JS
12	A	KMF/4912/BGVKC
13	D	KMF/4757/JD8TT
14	B	KMF/4706/UK7Q6
15	C	KMF/4719/ESXHG
16	A	KMF/4942/ENMN8
17	D	KMF/4709/V1CKC
18	C	KMF/4711/2JOPE
19	B	KMF/4754/MB9KB
20	B	KMF/4721/HDONC