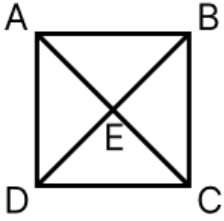


1. The diagram below shows the roads connecting five cities, A, B, C, D, and E.



How many different paths are there that can be taken from A to C, if we cannot pass through the same city more than once?

- A) 9
- B) 6
- C) 3
- D) 12

(Correct +3, Wrong 0, Blank 0)

2. Ani and Budi's ages are in a 3:5 ratio. If Ani is 18 years old, **how old is Budi?**

- A) 30
- B) 25
- C) 28
- D) 32

(Correct +3, Wrong 0, Blank 0)

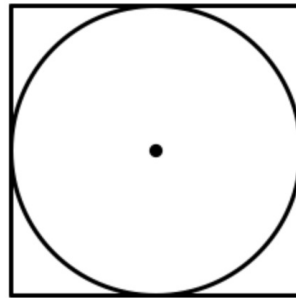
3. An orchard has apple trees and orange trees in the ratio 5:8.

If the number of trees in the orchard is 195, how many of them are orange trees?

- A) 110
- B) 120
- C) 80
- D) 150

(Correct +3, Wrong 0, Blank 0)

4. A square has a perimeter of 48 cm. A circle is inscribed in the square, touching all its sides.



What is the diameter of the circle?

- A) 10
- B) 16
- C) 12
- D) 24

(Correct +3, Wrong 0, Blank 0)

5. Which of the following is the greatest?

- A) $\sqrt{82}$
- B) 3^2
- C) 2^3
- D) $2 \times 2 \times 2$

(Correct +3, Wrong 0, Blank 0)

6. Andy thinks of a number. He multiplies it by 3, then adds 7, and gets 31.

What number did Andy think of?

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

(Correct +3, Wrong 0, Blank 0)

7. The average of five numbers is 60. If the largest number, 90, is removed, **what is the new average?**

- A) 55
- B) 54
- C) 50
- D) 52.5

(Correct +3, Wrong 0, Blank 0)

8. Sequence: 2, 6, 18, 54, ... **What is the 5th term?**

- A) 216
- B) 162
- C) 324
- D) 108

(Correct +3, Wrong 0, Blank 0)

9. Ruth goes to the library every 5 days, while Jessi goes to the library every 8 days. They went to the library on 29 September 2020.

On what date will Ruth and Jessi go to the library together again for the third time?

- A) 19 December 2020
- B) 20 December 2020
- C) 21 December 2020
- D) 18 December 2020

(Correct +3, Wrong 0, Blank 0)

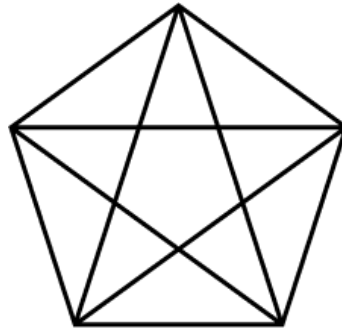
10. In an arithmetic sequence, the 25th term is 275, and the difference in the sequence is 8.

What is the first term of this sequence?

- A) 83
- B) 45
- C) 23
- D) 97

(Correct +3, Wrong 0, Blank 0)

11. How many triangles are in this picture?



- A) 35
- B) 5
- C) 10
- D) 20

(Correct +3, Wrong 0, Blank 0)

12. A sequence consists of 9 numbers arranged in ascending order. The sum of the nine numbers is 180 and the difference between any two consecutive numbers is 2.

The first number in the sequence is ____.

- A) 10
- B) 8
- C) 14
- D) 12

(Correct +3, Wrong 0, Blank 0)

13. 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)

14. Andy received a gift box from his uncle. Inside the gift box, there are 20 gifts, with 40% of them being toys and 60% being books.

If 25% of the toys are red and 50% of the books are red, what is the probability that Andy gets a red toy?

- A) $\frac{2}{7}$
- B) $\frac{1}{10}$
- C) $\frac{1}{5}$
- D) $\frac{5}{11}$

(Correct +3, Wrong 0, Blank 0)

15. In a school maze, there are 4 paths: 2 lead to the exit, 1 leads to a dead end, and 1 leads to a trap.

If Rina randomly selects 2 different paths, what is the probability that at least one path leads to the exit?

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

(Correct +3, Wrong 0, Blank 0)

16. A rectangle has a perimeter of 38 cm.

If its length is $(2x + 3)$ cm and its width is $(x + 1)$ cm, what is the value of x ?

- A) 2
- B) 5
- C) 8
- D) 3

(Correct +3, Wrong 0, Blank 0)

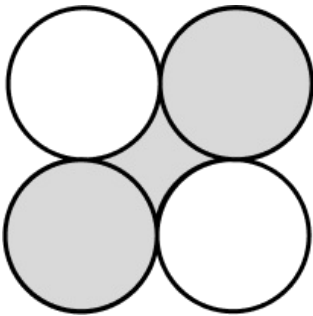
17. A number has a unique property where the product of its digits is 36, and the sum of its digits is 11. The number consists of 3 different digits.

What is the smallest digit of this number?

- A) 2
- B) 3
- C) 4
- D) 6

(Correct +3, Wrong 0, Blank 0)

18. Each of the four circles has perimeter of 10 units squared.



The perimeter of the shaded area is ____ units squared.

- A) 40
- B) 10
- C) 30
- D) 20

(Correct +3, Wrong 0, Blank 0)

19. Mira writes all the integers from 1 to 1000 in sequence (1, 2, 3, ..., 999, 1000).

If she counts how many times the digit 7 appears in all these numbers, what is the result?

- A) 271
- B) 200
- C) 300
- D) 250

(Correct +3, Wrong 0, Blank 0)

20. To buy two apples, Andi needs Rp20,000 including shipping costs. If Andi buys 5 apples, he needs Rp35,000.

The money Andi needs to buy ten apples is Rp.____.

- A) 60,000
- B) 80,000
- C) 110,000
- D) 50,000

(Correct +3, Wrong 0, Blank 0)

21. A flower garden has a special planting pattern. The first row has 2 flowers, the second row has 6 flowers, and the third row has 12 flowers.

How many flowers are in the sixth row? (Write your answer only in numbers)

(Correct +4, Wrong 0, Blank 0)

22. What number is the most suitable to continue the following sequence?

1 3 6 11 19 31 ____

Write only in numbers.

(Correct +4, Wrong 0, Blank 0)

23. Find how many two-digit numbers that will increase by 9 if their tens and units digits are reversed. (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

24. John has 4 different books to arrange on a shelf. Two of the books are mathematics books and must be placed next to each other.

How many different ways can he arrange all the books? (Write your answer only in numbers)

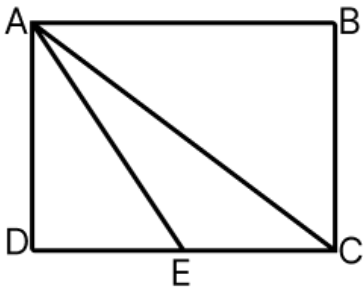
(Correct +4, Wrong 0, Blank 0)

25. There are three water pumps that are usually used to fill a pond. Just by using the first pump it takes 12 hours to completely fill the pool. Just using the second pump takes 6 hours, and just using the third pump takes 4 hours.

The time to fill the pool if all three pumps are used together is ____ hours. (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

26. In the image below $DE = EC$ and the area of triangle AEC is 8 square units



The area of quadrilateral ABCD is ____ square units. (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

27. Two numbers have a difference of 8 and when added together they produce the number 20.

The larger number is ____. (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

28. In a class, each student shakes hands with every other student **once**. If there are 45 handshakes in total, **how many students are there?**

(Correct +4, Wrong 0, Blank 0)

29. A spinner is divided into 8 equal parts, numbered 1 to 8. If spun once, the probability of landing on a prime number is $\frac{a}{b}$ (in simplest form).

Calculate the value of $a + b$.

(Correct +4, Wrong 0, Blank 0)

30. Handicraft orders are planned to be completed within 30 days. Days 1 to 18 are worked on by 15 craftsmen, then 5 craftsmen are added for days 19 to 21.

If by day 21 75% of orders have been completed, what is the least number of craftsmen must work on days 22 to 30 so that orders can be completed on time? (Write only in numbers.)

(Correct +4, Wrong 0, Blank 0)

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Answer Keys

No	Key	Code
1	A	KMF/4117/1YZTU
2	A	KMF/4147/FSVHN
3	B	KMF/4077/4MOAB
4	C	KMF/4152/ATQUT
5	A	KMF/4115/ITQVD
6	C	KMF/4146/22XCI
7	D	KMF/4151/LSU5P
8	B	KMF/4148/DZG9E
9	D	KMF/4012/S2ALF
10	A	KMF/4083/KO4L9
11	A	KMF/4113/ZDP8Z
12	D	KMF/4114/ZUVV8
13	C	KMF/4112/E1NXA
14	B	KMF/4019/0WJZX
15	D	KMF/4020/O9TKB
16	B	KMF/4086/RGE3A
17	A	KMF/4082/BVGY1
18	D	KMF/4116/CMTI6
19	C	KMF/4084/VXVIW
20	A	KMF/4121/8VQFP