

Markhor Junior Contest 2021

Elementary Level (CLASS V & VI) Mathematics
Time Allowed 60 Minutes

There are 19 problems, graded as follows:

Questions 1-5 are 1 point each,

Questions 6-10 are 2 points each,

Questions 11-15 are 3 points each,

Questions 16-19 are 5 points each.

1. The Successor of 1099 is

- a) 1010
- b) 1000
- c) 1100
- d) 1011

2. Ten billion is

- a) One hundred million
- b) One thousand million
- c) Ten million
- d) Hundred thousand million

3. The estimated product of 59 and 5

- a) 295
- b) 300
- c) 350
- d) None

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4. The whole number which does not have a predecessor in whole number system is
- a) 0
 - b) 1
 - c) 2
 - d) none of these
5. The sum of the successor of the greatest 3-digit number and the predecessor of the smallest 3- digit number is
- a) 1000
 - b) 1100
 - c) 1101
 - d) 1099
6. Which of the following is not equal to zero?
- a) 0×5
 - b) $0 \div 5$
 - c) $(10-10) \div 5$
 - d) $(5-0) \div 5$
7. Which of the following statement is true?
- a) $21 - (13-5) = (21-13) - 5$
 - b) $21-13$ is not a whole number
 - c) $21 \times 1 = 21 \times 0$
 - d) $13-21$ is not a whole number

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8. If a shopkeeper sells a wrist- watch for Rs.720 makes a profit of 20%, its cost price is

- a) Rs.740
- b) Rs.500
- c) **Rs.600**
- d) Rs.720

9. If cost price is Rs.500 and actual profit is Rs.25 then profit% is

- a) **5%**
- b) 15%
- c) 25%
- d) 50%

10. Which of the following is a pair of co-prime numbers?

- a) **8,45**
- b) 3,18
- c) 5,35
- d) 6,39

11. Which of the following is a pair of twin- prime numbers?

- a) 19,21
- b) 43,47
- c) **29, 31**
- d) 73,79

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12. Which of the following numbers has the unique property of being both a perfect square and a perfect cube?

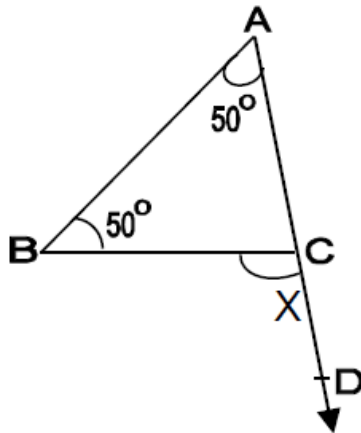
- a) 4096
- b) 1024
- c) 1000
- d) 1056

13. Which of the following triangles is possible with the given three sides?

- a) $AB = 10\text{cm}$, $BC = 2\text{cm}$, $AC = 8\text{cm}$
- b) $AB = 17\text{cm}$, $BC = 9\text{cm}$, $AC = 12\text{cm}$
- c) $AB = 15\text{cm}$, $BC = 7\text{cm}$, $AC = 4\text{cm}$
- d) $AB = 20\text{cm}$, $BC = 10\text{cm}$, $AC = 5\text{cm}$

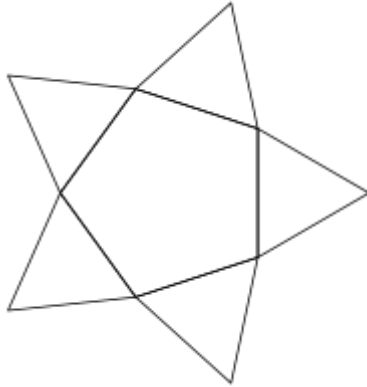
14. The value of X in the given figure

- a) 120
- b) 100
- c) 80
- d) 60



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15. The following figure is the net of a_____.



- a) Cube
- b) Cuboid
- c) Triangular pyramid
- d) **Pentagonal pyramid**

16. If the perimeter of a square is 40 cm, then its area is

- a) 160 cm^2
- b) 20 cm^2
- c) **100 cm^2**
- d) 1600 cm^2

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17. If the area of a square is numerically equal to its perimeter then the length of each side is

- a) 1 unit
- b) 2 units
- c) 3 units
- d) 4 units

18. Which of the following daily life situations best describes rotation?

- a) Pulling a zipper up on your jacket
- b) Twisting a bottle cap to open it
- c) Sliding a chair across the floor
- d) Lifting a suitcase into a car

19. Which of the following daily life situations best describes a right angle?

- a) The hands of a clock at 3:00
- b) The edges of a round coin
- c) The corners of a soccer ball
- d) The shape of a rainbow

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