

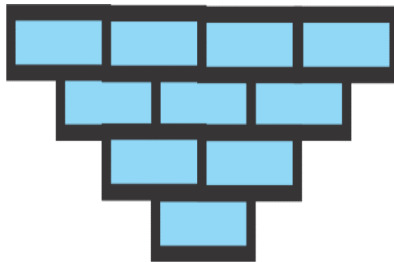
Markhor Junior Contest 2022

ELEMENTARY LEVEL (CLASS V & VI) Mathematics

Time Allowed 60 Minutes

19 problems to solve: five – 1 point each, five – 2 points each, five – 3 points each, and four – 5 points each

1. If a pentagon has 5, the square has 4 and the triangle has 3, what will the circle have?
 - a. 100
 - b. 20
 - c. 0
 - d. 10
2. How many numbers are there from 10 to 100 which remain prime numbers when the order of their digits is reversed?
 - a. 15
 - b. 9
 - c. 12
 - d. 25
3. Ahmed is playing with blocks. Can you guess how many blocks he will have to put in the next two layers?
 - a. 10
 - b. 9
 - c. 11
 - d. 8



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4. Haris wants to write the greatest 4-digit number with 4,5,1,0. Which digit he should not write at thousand place write at the unit place?
 - a. 5
 - b. 4
 - c. 0
 - d. 1
5. There are three prime numbers between
 - a. 40-50
 - b. 50-60
 - c. 60-70
 - d. 90-100
6. Three bags of rice weigh less than 65kg, and 10 bags weigh is greater than 190kg. It is known that the weight is a whole number. What is the weight of the bag?
 - a. 15
 - b. 35
 - c. 12
 - d. 20
7. Which calculation doesn't give a prime number?
 - a. $15 \div 3 + 3 \times 4 - 6$
 - b. $51 \div 3 + 3 \times 4 - 6$
 - c. $18 \div 3 + 3 \times 4 - 6$
 - d. $35 \div 5 + 3 \times 4 - 6$

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8. The volume of the cube is 512cm^3 . What is the length of the red line?

- a. 50
- b. 60
- c. 40
- d. 35



9. What number will be in red box?

- a. 5
- b. 6
- c. 4
- d. 8

$$\boxed{5} \boxed{} \times \boxed{} = 336$$

10. Huma collects cards that are divisible by 6. Find the sum of the numbers she has collected.



- a. 506
- b. 204
- c. 256
- d. 271

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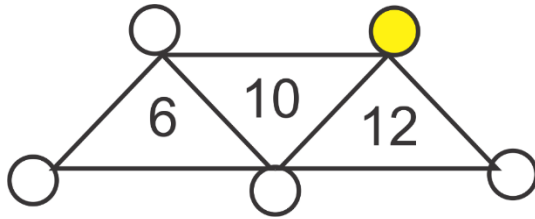
11. A water pump takes 25 minutes to fill a tank. After every 60 minutes of working, we need to stop the water pump for 10 minutes to avoid overheating. If we switch on at 3:15pm . At what time 4 tanks will be filled?
- 4:55pm
 - 5:05pm
 - 4:05:pm
 - 5:15pm
12. In the MARKHOR JUNIOR CONTEST, there are some students who have the same date of birth. The sum of their ages is 90. After 3 years the sum of their ages is 117. How many students are there with the same date of birth?
- 15
 - 12
 - 9
 - 10
13. There is a big square. The sides of the blue square are half of the big square and the sides of the yellow square are half of the blue. If the area of the yellow square is 4cm^2 . What is the perimeter of the big square?
- 16 cm
 - 64 cm
 - 32 cm
 - 48 cm



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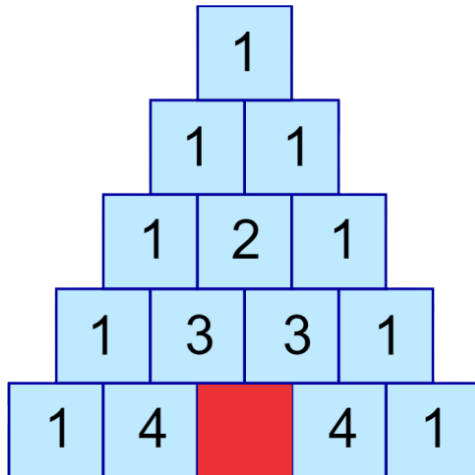
14. Ahmed wants to write the numbers 1, 2, 3, 4, and 5 in the given diagram in such a way the number inside the triangle will be the sum of its vertices. What is the number will he write in the yellow circle?

- a. 2
- b. 3
- c. 4
- d. 5



15. What number will be in red box?

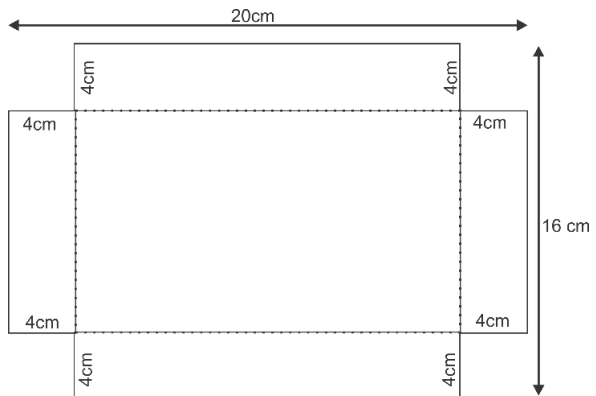
- a. 5
- b. 6
- c. 4
- d. 8



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16. Huma wants to make a box. She starts with a piece of cardboard whose length is 20 centimeters and width is 16 centimeters. Then she cuts 4 congruent squares with sides of 4 centimeters at the four corners and folded at the broken lines to make the box. What is the volume of the box?

- a. 384 cm^3
- b. 768 cm^3
- c. 1280 cm^3
- d. 2560 cm^3



17. What digit should we write in the space so that the number formed is divisible by 11?

92 ___ 389

- a. 5
- b. 6
- c. 7

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- d. 8
18. Ali is 5 years old and Asad is 13 years younger than Hamza. One year ago, Hamza's age was twice the sum of Ali's & Asad's ages. What is the present age of Hamza?
- a. 19
b. 18
c. 13
d. 15
19. The Diagram of the picture frame has outer Dimensions of 40 cm x 30 cm and inner dimensions of 20 cm x 30 cm. What is the area of the Pink part of the frame, if the width of each section is the same?
- a. 175
b. 350
c. 240
d. 1200

