

## English Version

4<sup>th</sup> Grade

1. Find the answer.

$$0,9 \times (0,4 + 0,6) =$$

- A. 0,9      B. 9      C. 1,9      D. 0,09      E. 1

2. John multiplied a number by 10 instead of dividing it by 10. He obtained the result 100. What would have been the correct result if he hadn't done this mistake?

- A.  $\frac{1}{10}$       B. 1      C. 10000      D. 100      E. 1000

3. There are some pupils on a school bus. At the first bus stop 3 pupils get off the bus and 7 get in. At the second bus stop Maria and her 2 little cousins get off the bus. The remaining 12 pupils that are still on the bus leave at the third bus stop. How many were the pupils before the first bus stop?

- A. 10      B. 11      C. 12      D. 13      E. 14

4. The digit \* in the following sum is equal to:

$$\begin{array}{r} 1 \quad * \quad 2 \quad * \\ + \quad 3 \quad * \quad 4 \quad * \\ \hline 5 \quad 4 \quad * \quad 4 \end{array}$$

- A. 1      B. 2      C. 6      D. 7      E. 9

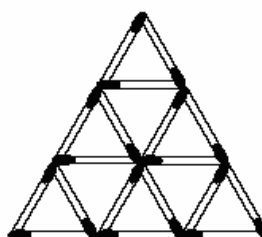
5. How many matchsticks will you need to construct the fourth shape in the row?



First shape



Second shape



Third shape

A. 9                      B. 18                      C. 30                      D. 42                      E. 45

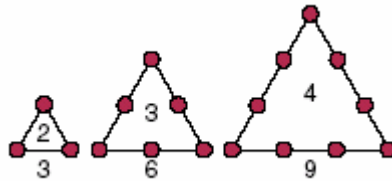
6. Which of the following numbers is a prime number?

A. 27                      B. 39                      C. 17                      D. 35                      E. 91

7. If  $((x - 1) \div 1) + 1 = 105$ , what is the value of x;

A. 106                      B. 105                      C. 104                      D. 103                      E. 102

8. Below is the beginning of a pattern. The number under each triangle shows the total number of dots on the triangle. The number inside the triangle shows the number of dots on each side of the triangle.



If we continue the pattern, which number will be shown inside the triangle, when the number under the triangle will be 27?

A. 10                      B. 33                      C. 9                      D. 36                      E. 12

9. The objects have the following masses:



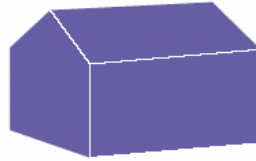
Which combination of objects below makes up 2,05 kilograms?

- A.                      B.
- C.                      D.
- E.

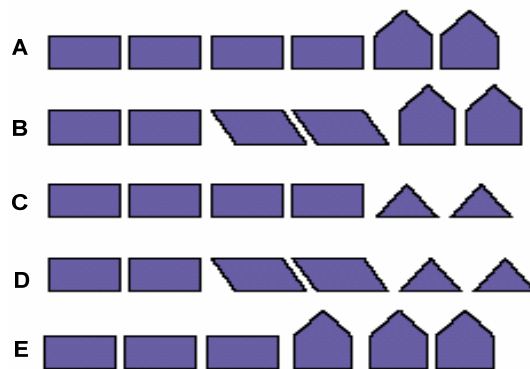
10. A supermarket advertises the following promotion: "If you buy 4 jars of jam at the normal price, the fourth one costs only 10 cent". Helen paid £ 7,70 and bought 8 jars of jam. What is the normal price for one jar of jam?

A. £1,32      B. £1,27      C. £1,25      D. £0,96      E. £1,09

11. Peter built a model of a small house. The small house had no floor and no doors.



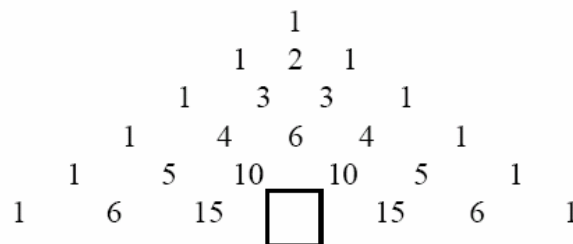
Which of the following shows the shapes that Peter used to build the house?



12.  $\frac{1+2+3+4}{1 \times 2 \times 5}$  equals

A. 0      B. 1      C. 2      D. 3      E. 4

13. What is the missing number in the square?



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A. 5                      B. 20                      C. 21                      D. 10                      E. 25

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14. If you multiply  $11 \times 13 \times 15$ , what is the units digit of the product?

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A. 1                      B. 3                      C. 5                      D. 7                      E. 9

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15. What is the result of the following operations?

$$0,3 \times 0,4 + 0,3 \times 0,9$$

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A. 0,78                      B. 1,3                      C. 0,189                      D. 3,9                      E. 0,39

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16. If you divide 2001 by 200, the remainder is:

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A. 1                      B. 10                      C. 99                      D. 9                      E. 0

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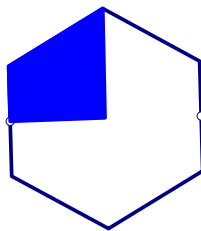
17. You are planning to go to the cinema to watch a 60-minute movie. The movie you want to watch starts at 7:30 p.m. You want to get to the cinema 10 minutes before the movie starts, so that you'll have plenty of time to buy your tickets. If it takes you 20 minutes to get to the cinema from your house, at what time should you leave your house?

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A. 6:50 p.m.                      B. 6:55 p.m.                      C. 7:00 p.m.                      D. 7:05 p.m.                      E. 8:05 p.m.

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18. If the area of the hexagon is  $72 \text{ cm}^2$ , what is the area of the shaded part of the hexagon?



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A.  $12 \text{ cm}^2$                       B.  $18 \text{ cm}^2$                       C.  $6 \text{ cm}^2$                       D.  $4 \text{ cm}^2$                       E.  $\frac{1}{4} \text{ cm}^2$

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19. Four consecutive natural numbers add up to 58. Which is the smallest of these four numbers?

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A. 1                      B. 2                      C. 16                      D. 13                      E. 14

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20. Which of the following has the biggest sum?

- A.  $0,3 + 0,11$     B.  $0,09 + 0,21$     C.  $0,4 + 0,10$     D.  $0,27 + 0,14$     E.  $0,41 + 0,03$

21. How many different 4-digit numbers can be constructed using the digits 1, 2, 3 and 4, if each digit is only used once in each number?

- A. 4    B. 8    C. 20    D. 12    E. 24

22. Nikos and Niki had  $1\frac{1}{2}$  chocolates to divide evenly between them. What part of the chocolate does each one get?

- A.  $\frac{5}{8}$     B.  $1\frac{1}{4}$     C.  $\frac{3}{4}$     D.  $\frac{1}{4}$     E.  $\frac{1}{2}$

23. The length of a rectangle is 64 cm and its width is 4 cm. Which of the following squares has the same area as the rectangle?

- A. Square with a side of 8 cm    B. Square with a side of 2 cm  
C. Square with a side of 256 cm    D. Square with a side of 12 cm  
E. Square with a side of 16 cm

24. If  $(4 \times \alpha) - 22 = 46$ , find the value of  $\alpha$ ;

- A. 6    B. 16    C. 17    D. 22    E. 68

25. If the volume of a cube is  $512 \text{ cm}^3$ , then the side of the cube is:

- A. 16 cm    B. 256 cm    C. 128 cm    D. 8 cm    E. 4 cm

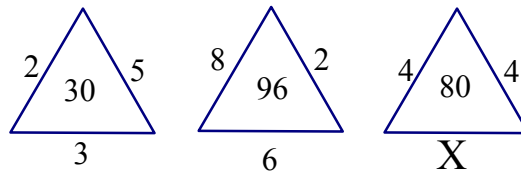
26. I need 4 pins to fix a rectangular picture on the board, and 6 pins to fix two pictures, as it is shown in the picture below.



How many pins do I need to fix 10 pictures in the same manner?

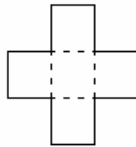
- A. 24      B. 22      C. 20      D. 18      E. 16

27. What is the value of X?



- A. 8      B. 12      C. 9      D. 5      E. 4

28. I used 5 squares in order to construct the following shape. The perimeter of the shape is 72 cm.



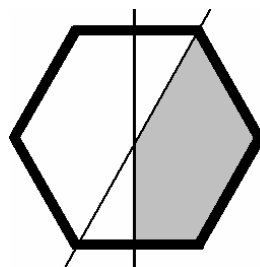
How many square centimeters is the area of the shape?

- A. 36      B. 180      C. 108      D. 360      E. 5

29. The sum of 7 one-digit numbers is 17. Six of these numbers are the same. What is the value of the seventh number?

- A. 1      B. 7      C. 3      D. 6      E. 5

30. What part of the hexagon is shaded;



- A.  $\frac{1}{2}$       B.  $\frac{5}{12}$       C.  $\frac{4}{12}$       D.  $\frac{1}{3}$       E.  $\frac{3}{12}$