

Question 1.

What is the total number of hearts below?

(Please answer in Capital Letters)



- A. 51
- B. 52
- C. 53
- D. 54
- E. None of the above

Question 2.

Which of the following is the same as 2018 cm?

(Please answer in Capital Letters)

- A. 2 metres and 18 centimetres
- B. 2 kilometres and 18 centimetres
- C. 20 metres and 18 centimetres
- D. 201 metres and 8 centimetres
- E. None of the above

Question 3.

The following table shows the scores of Tiffany, Ursula, Vincent and Warren in the "Mathcraft Game".

	Round 1	Round 2	Round 3	Round 4
Tiffany	7	56	8	43
Ursula	37	24	36	13
Vincent	27	41	23	21
Warren	27	38	23	27

Who received the highest score?

**(Please answer in Capital Letters)**

- A. Tiffany
- B. Ursula
- C. Vincent
- D. Warren
- E. Tiffany and Vincent

Question 4.

Ducklings are walking in a queue when they are following the mother duck. Joey the duckling is the 6th from the front and 8th from the back (including the mother duck). Some of the ducklings at the back moved away from the queue making Joey the middle duckling in the queue. How many ducklings moved away from the queue?

**(Please answer in Capital Letters)**

- A. 2
- B. 3
- C. 4
- D. 5
- E. None of the above.

Question 5.

George takes 4 minutes to go from 1st floor to 3rd floor. He just realized that he forgot his water bottle on the 5th floor. He is now on the 2nd floor. How long would it take him to get his water bottle?

**(Please answer in Capital Letters)**

- A. 4 minutes
- B. 5 minutes
- C. 6 minutes
- D. 8 minutes
- E. None of the above.

Question 6.

What is the next number below?

3, 5, 6, 10, 9, 15, 12, 20, \_\_\_\_\_

- A. 13
- B. 15
- C. 18
- D. 25
- E. None of the above

Question 7.

Hansel wants to buy 2 dice of different colours. If the available colours in a store are red, blue, green, yellow, pink and white, how many different combinations of 2 dice are there in the store? (Example: 1 combination is yellow and white)

**(Please answer in Capital Letters)**

- A. 5
- B. 10
- C. 15
- D. 20
- E. None of the above

Question 8.

A palindrome is a number that can be read the same forward and backward. For example, the numbers 99, 252 and 4884 are palindromes. How many 3-digit palindrome numbers are there?

**(Please answer in Capital Letters)**

- A. 81
- B. 900
- C. 90
- D. 9
- E. None of the above

Question 9.

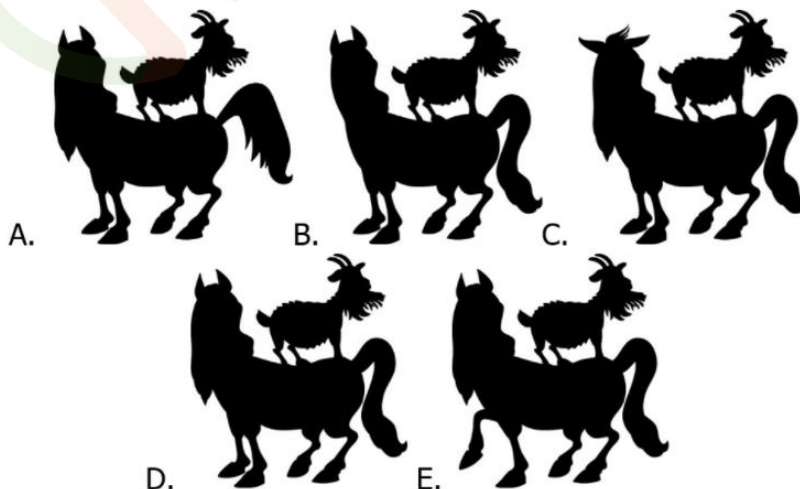
Which of the following CANNOT form a rectangle?

**(Please answer in Capital Letters)**

- A. Two identical triangles
- B. Two identical squares
- C. Five identical squares
- D. Four identical triangles
- E. Five identical triangles

Question 10.

Find the correct shadow of the animals shown on the right.



Question 11.

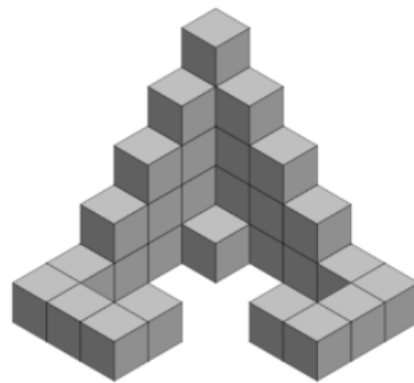
Elmo visits the Sesame Street Park every Wednesday. If the 1st of January 2017 was Sunday and February had 28 days, what was the last date in March 2017 in which Elmo visited Sesame Street Park?

**(Please answer in Capital Letters)**

- A. 28th March
- B. 29th March
- C. 30th March
- D. 31st March
- E. None of the above

Question 12

The diagram shows some cubes of the same size stacked at a corner of a room. How many cubes are there altogether? (Note: The floor is horizontal and the two walls are vertical. There are no gaps or holes behind the visible cubes.)

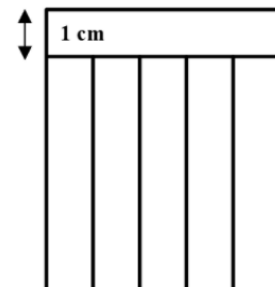


- A. 23
- B. 26
- C. 28
- D. 30
- E. None of the above

Question 13.






The figure is made up of 6 identical rectangles with breadth of 1 cm. What is the perimeter of the figure?

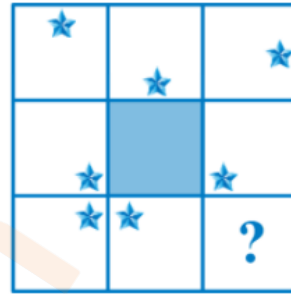
- A. 20
- B. 22
- C. 24
- D. 26
- E. None of the above.



Question 14.

What is the missing piece '?' in the diagram?

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



Question 15.

A toy store has 43 yoyos in the first box and 23 yoyos in the second box. After a week, an equal number of yoyos from each box were sold. The number of yoyos in the first box were then five times as many as the number of yoyos in the second box. How many yoyos were left?

**(Please answer in Capital Letters)**

- A. 6  
B. 18  
C. 24  
D. 32  
E. None of the above



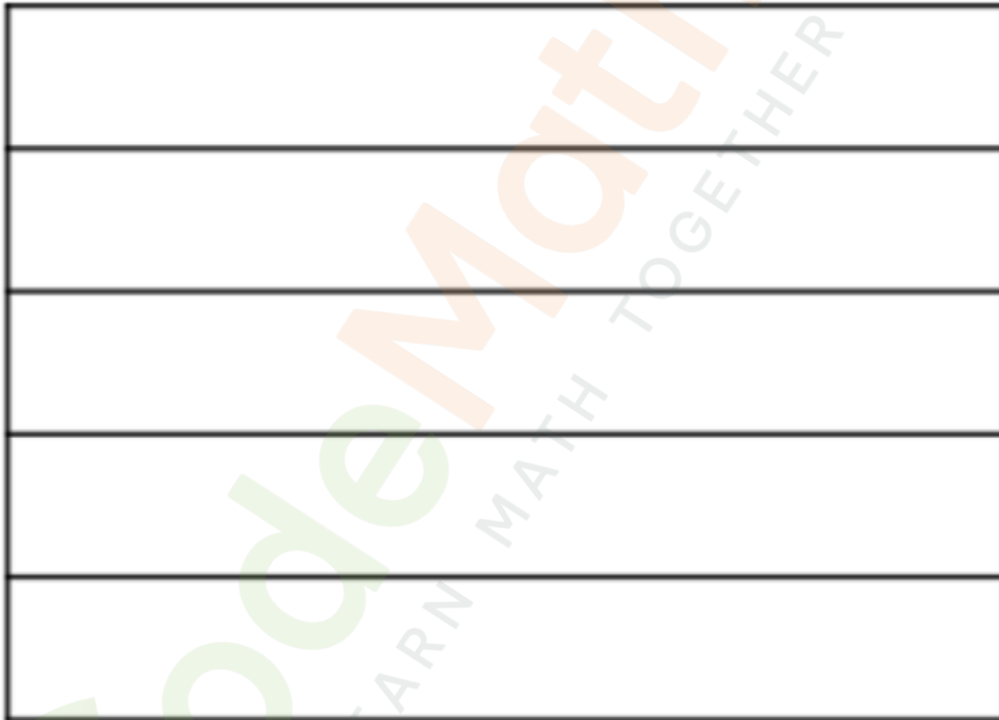
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Question 16.

Find the sum:  $11+13+15+17+19+21+23+25+27+29+31$

Question 17.

How many rectangles are there in the picture below?



Question 18.

In a classroom, Kevin wrote 30 more letters than Sara, and James wrote 40 more letters than Sara. Altogether, they wrote 160 letters. Find the number of letters Kevin wrote.

Question 19.

Find a two-digit multiple of 6 which is one more than a multiple of 13.

Question 20.

Andy shows a number to Zach, then they have the following conversation:


Andy: "Subtract 17 from it, then divide the result by 6. After that, add 39 to the new number and then multiply the resulting number by 4. Finally, add 29"


Zach: "Not hard, the final answer is 209 and I'm very sure it is the correct answer"


What is the number that Andy showed to Zach?

Question 21.

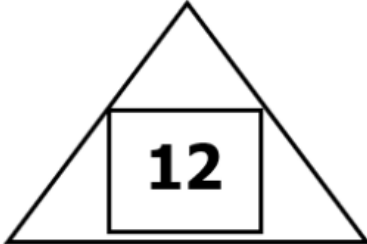
Study the pattern below.

 $= 4$

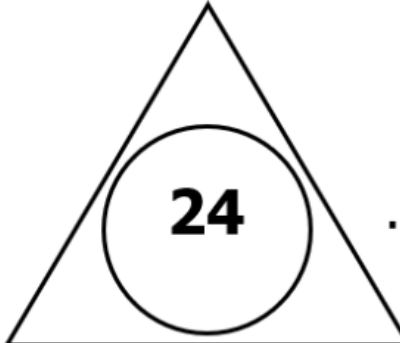
 $= 6$

 $= 14$

 $= 32$

 $= 41$

Find the value of

 $.$



Question 22.

Jeremy has the same size toy cars in his box in which 5 are red, 9 are blue and 4 are white. How many cars does he need to pick from the box without looking to be sure he will get 3 toy cars of the same colour?

Question 23.

Given that

$$\text{Diamond 1} + \text{Diamond 2} + \text{Diamond 1} = 15$$

$$\text{Diamond 3} + \text{Diamond 1} + \text{Diamond 2} = 17$$

$$\text{Diamond 3} + \text{Diamond 2} = 13$$

Find the value of



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Question 24.

In the following, all the different letters stand for different digits.

$$\begin{array}{r}
 \phantom{-} A \phantom{00} B \phantom{0} 2 \\
 - \phantom{0} 3 \phantom{00} A \phantom{0} A \\
 \hline
 \phantom{0} 1 \phantom{00} A \phantom{0} 7
 \end{array}$$

Find the value of  $A + B + B + A$ .

Question 25.

Fill the figure with numbers so that each shaded square in the figure is surrounded by all digits from 1 to 8. How many times will the digit '8' appear in the filled figure?

