1. Which of the following statements is WRONG?

A. $8 \div 7 > 7 \div 6$

B. $8 \times 5 < 6 \times 7$

Γ. $7 \times 0 < 8 \div 8$

Δ. $1 \div 7 > 1 \div 8$

E. $60 \div 7 > 60 \div 8$

2. The weakest ring in a chain is the 7th from the beginning and the 11th from the end. How many rings the chain has?

A. 15 B. 16 Γ. 17 Δ. 18 E. 19

3. The 550 students of a school will conduct a field trip. For their transport, buses will be used with a capacity of 64 students each. How many buses will be needed?

A. 8 B. 8,59375 Γ. 8,6 Δ. 9 E. 10

4. John has 9 pieces of paper. He cuts some in three pieces each, in order to make a total of 23 pieces of paper. How many pieces of paper are cut?

A. 3 B. 2 Γ. 6 Δ. 9 E. 7

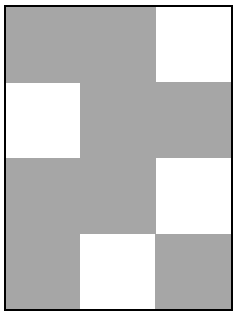
5. A trainer puts 6 students of a class in a row, one behind the other, so that each student is 3 m from the student in front of him. How many meters away is the last student from the first student?

A. 18 m B. 15 m Γ. 45 m Δ. 3 m E. None of these.

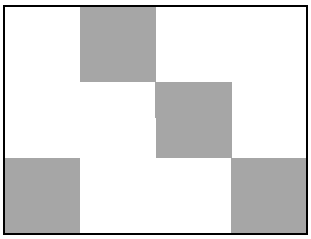
6. Costas wants to buy music CDs. If he buys 4 discs, he will be left with 7 euros. If he buys 6 discs, he will need 13 euros more. What is the value of each digital disc?

A. €11 B. €12 Γ. €10 Δ. €13 E. €20

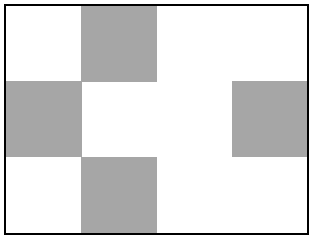
7. Five equal-sized rectangular sheets of plastic are divided into white and black squares. Which sheet from A to E must be placed over the sheet of given image so the result is a totally black rectangle?



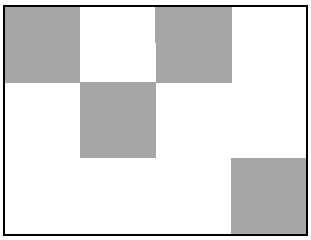
A.



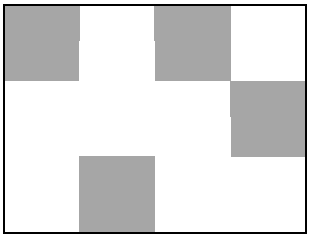
B.



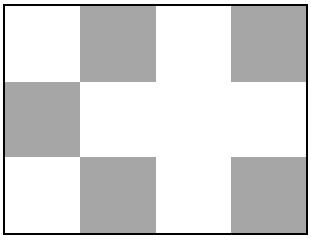
Γ.



Δ.



E.



8. The positive integers are written in rows as follows:

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
…	…	…	…	…

The sum of which line is closer to 150?

A. 5th B. 6th Γ. 7th Δ. 8th E. 26th

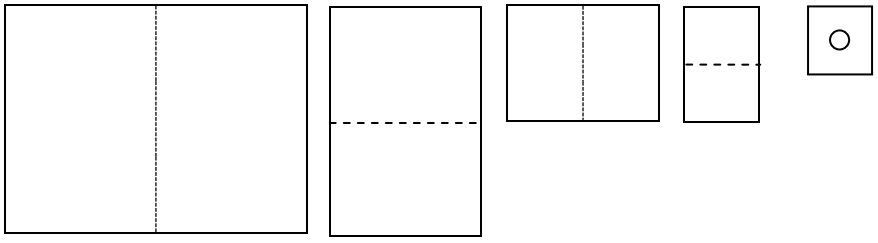
9. A pattern is shown below. What will be the 51st fruit of the pattern?

A.  B.  Γ.  Δ.  E. 

10. Today is Sunday. What day will be after 400 days from now?

A. Sunday B. Monday Γ. Tuesday Δ.Thursday E. Saturday

11. Maria folds a piece of paper in the middle and then repeats the same procedure 3 times. After that, she makes a hole in the folded paper. If Mary unfolds the paper, how many holes will the paper have?



A. 8 B. 12 Γ. 14 Δ. 16 E. 32

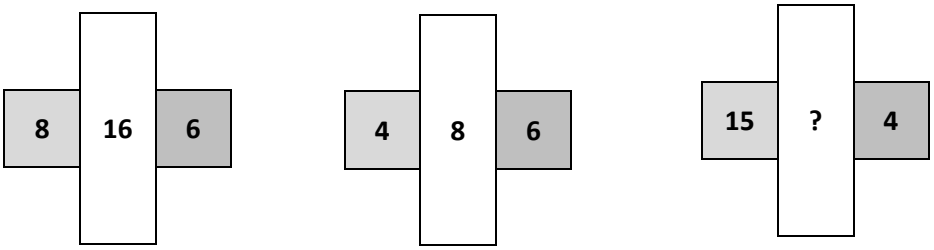
12. A number is multiplied by 8. The result is increased by 8 points. If the final result is 88, the initial number was:

A. 8 B. 10 Γ. 16 Δ. 80 E. 88

13. How many times the digit "1" is used to write all the numbers from 1 to 100?

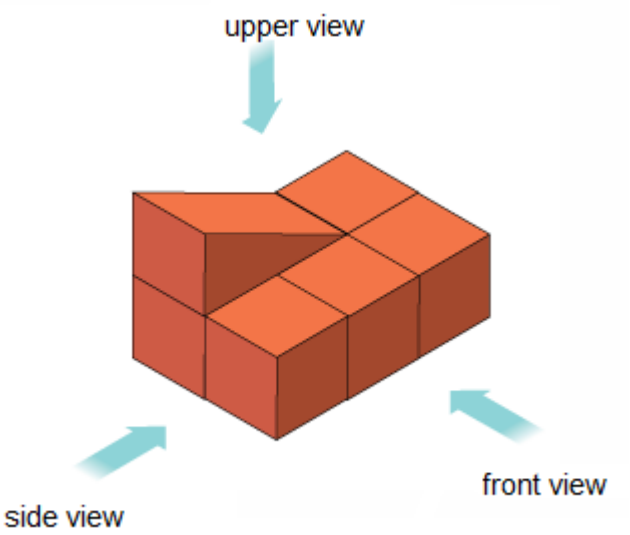
A. 19 B. 20 Γ. 21 Δ. 22 E. 23

14. Which number is represented by the question mark at the third shape, in order to have the same logic operations in the three shapes?

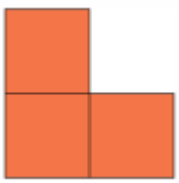


A. 30 B. 20 Γ. 4 Δ. 15 E. 60

15. Which figure below shows the front view of the object?

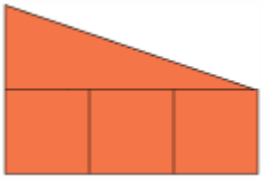


A.

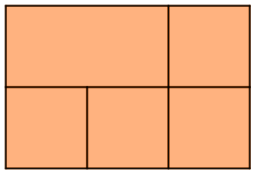


B.

Γ.



Δ.



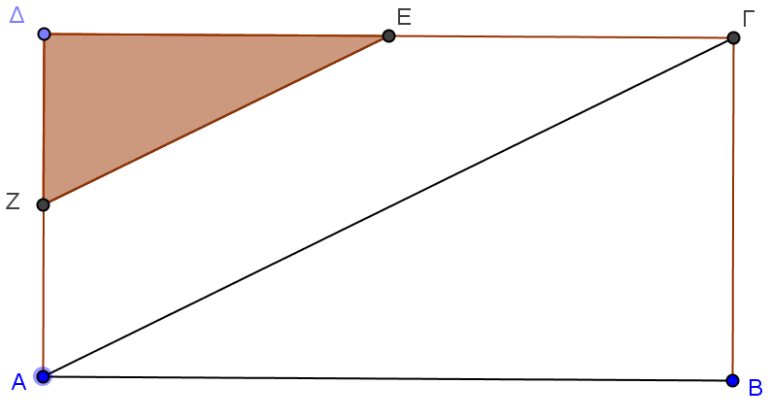
E. None of the above

16. In the following deduction, M and N are single digits. What is the sum of M and N?

$$\begin{array}{rcc} & M & 4 \\ - & 3 & N \\ \hline & 1 & 6 \end{array}$$

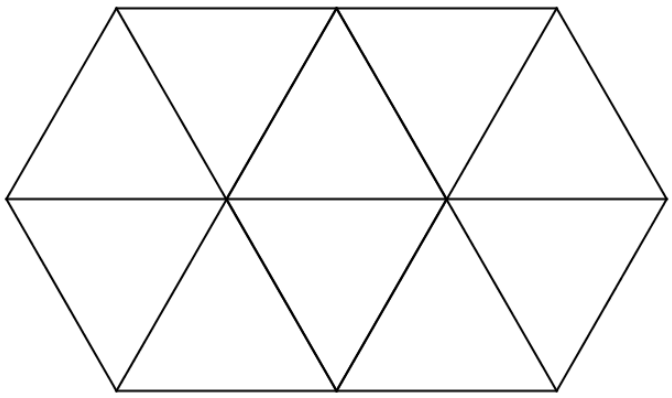
A. 11 B. 12 Γ. 13 Δ. 14 E. 15

17. In the figure below, ΑΒΓΔ is a rectangle. Point Ε is the midpoint of the ΔΓ and the point Ζ is the midpoint of ΑΔ. What part of the rectangle is the shaded triangle?



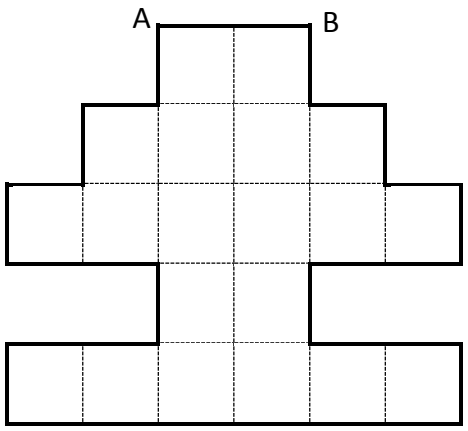
A. $\frac{1}{3}$ B. $\frac{1}{4}$ Γ. $\frac{2}{5}$ Δ. $\frac{1}{8}$ E. $\frac{3}{8}$

18. How many triangles are in the figure below?



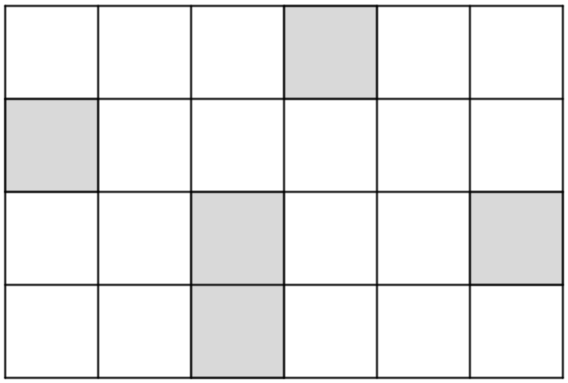
A. 5 B. 8 Γ. 10 Δ. 11 E. 12

19. In the figure below the length of the side AB is 4 cm. Find the perimeter of the figure.



A. 56 cm B. 60 cm Γ. 64 cm Δ. 72 cm E. 80 cm

20. In the figure below, we want the shaded squares to be half of all squares. To do this, you must still shade:



A. 4 B. 5 Γ. 6 Δ. 7 E. 8

21. George is ill. The doctor said that he should take the pill A every 9 hours, pill B every 6 hours and pill C every 5 hours. If he took all the pills at 12 noon on Monday, when will he retake all three pills together?

A. Noon on Thursday
B. Saturday 6 a.m.
Γ. Friday 6 p.m.
Δ. Friday 6 a.m.
E. None of the above

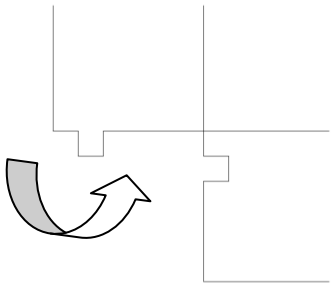
22. What combination of tens and hundreds DOES NOT form the number 850?

A. 5 tens and 8 hundreds
B. 85 tens
Γ. 15 tens and 7 hundreds
Δ. 20 tens and 8 hundreds
E. 75 tens and 1 hundred

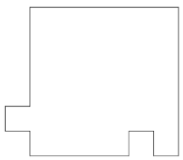
23. Which one of the choices shows the longest time?

A. $\frac{1}{4}$ of a day
B. 900 minutes
Γ. 5 hours
Δ. 900 seconds
E. $\frac{1}{14}$ of a week

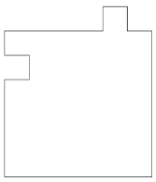
24. Which of the following pieces completes the puzzle?



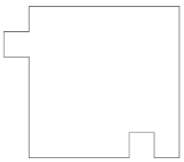
A.



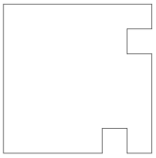
B.



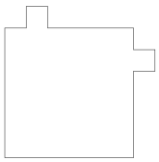
Γ.



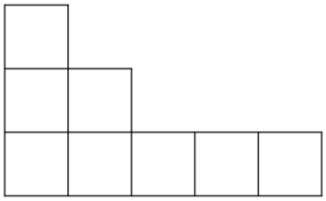
Δ.



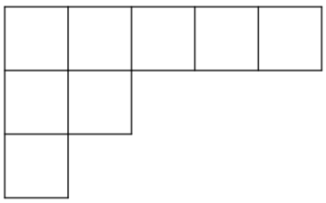
E.



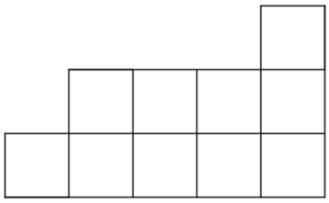
25. What is the part that applies to the given shape in order to form a rectangle?



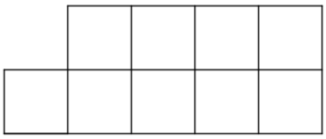
Α.



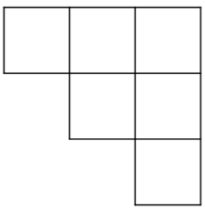
Β.



Γ.



Δ.



Ε.