



Grade 5

# OLYMPIAD 2023 - 24 REASONING

Total Questions: 50

Total Marks: 50

Time: 1hr

Set: A

Question: 1 of 50

QID: 21163

Marks: 1

If John is taller than Mary but shorter than Tom, and Tom is shorter than Sarah, who is the tallest among them?

- A. Sarah
- B. John
- C. Mary
- D. Tom

Question: 2 of 50

QID: 21177

Marks: 1

Which statement best defines the concept of gravity?

- A. A force that causes acceleration
- B. The speed of light in a vacuum
- C. A type of energy stored in objects
- D. The force that pulls objects towards each other

Question: 3 of 50

QID: 21147

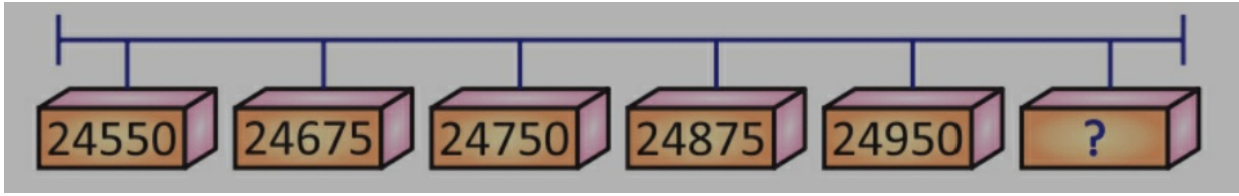
Marks: 1

How many shapes has the number of sides equal to 4?



- A. 3
- B. 4
- C. 2
- D. 5

Which of the following options will continue the given number series?



- A. 2500
  B. 25075
- C. 25025
  D. 25175

## Question: 5 of 50

QID: 21171

Marks: 1

What will be the code for the word "TRIANGLE" if the following coding pattern is followed: A = Z, B = Y, C = X, ..., Z = A?

- A. GIRZMTVO
  B. GIRZMTOV
- C. GIRZTOV
  D. GIRRMTOV

## Question: 6 of 50

QID: 21161

Marks: 1

If 'Book' is related to 'Library', then 'Tree' is related to:

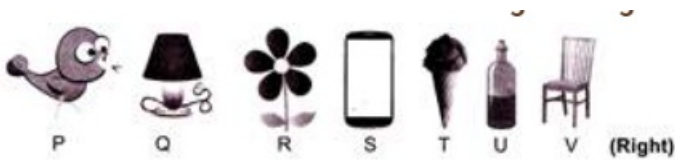
- A. Forest
  B. Leaves
- C. Garden
  D. Fruit

## Question: 7 of 50

QID: 21170

Marks: 1

If the flower is removed from the arrangement given below, then which item is fifth from the left end?



- A. U
  B. R
- C. Q
  D. S

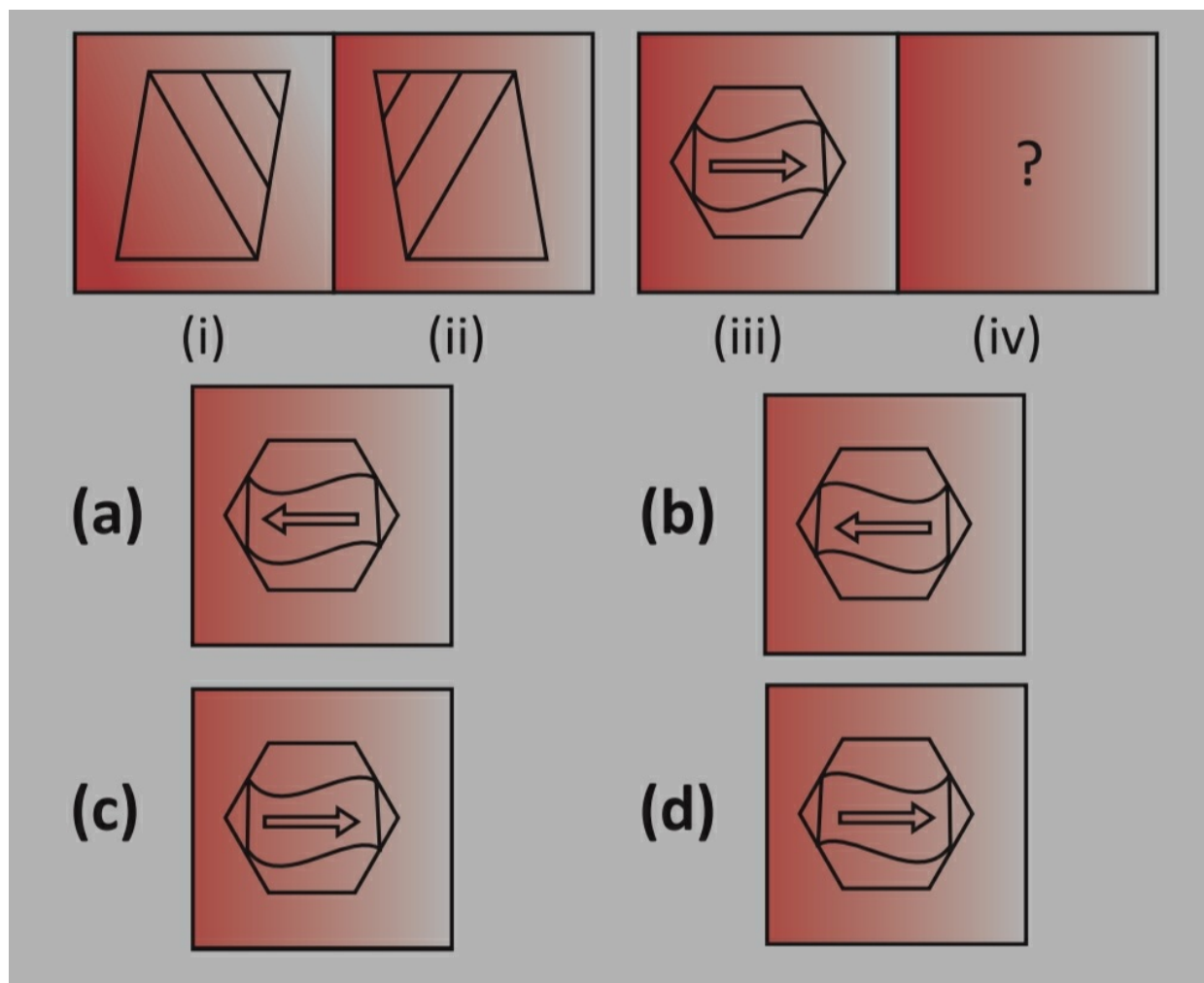
Maria faces South and turns 270° anticlockwise. In which direction is she facing now?

- A. North
  B. North-West  
 C. West
  D. East

If 'P' is coded as 16, 'M' is coded as 13, and 'K' is coded as 11, then what will 'S' be coded as?

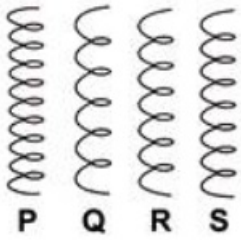
- A. 18
  B. 19  
 C. 20
  D. 21

There is a certain relationship between figures (i) and (ii). Establish a similar relationship between figures (iii) and (iv) by selecting a suitable figure from the given options which will replace the (?) in figure (iv).



- A. a
  B. b  
 C. c
  D. d

Which spring has the least number of coils?

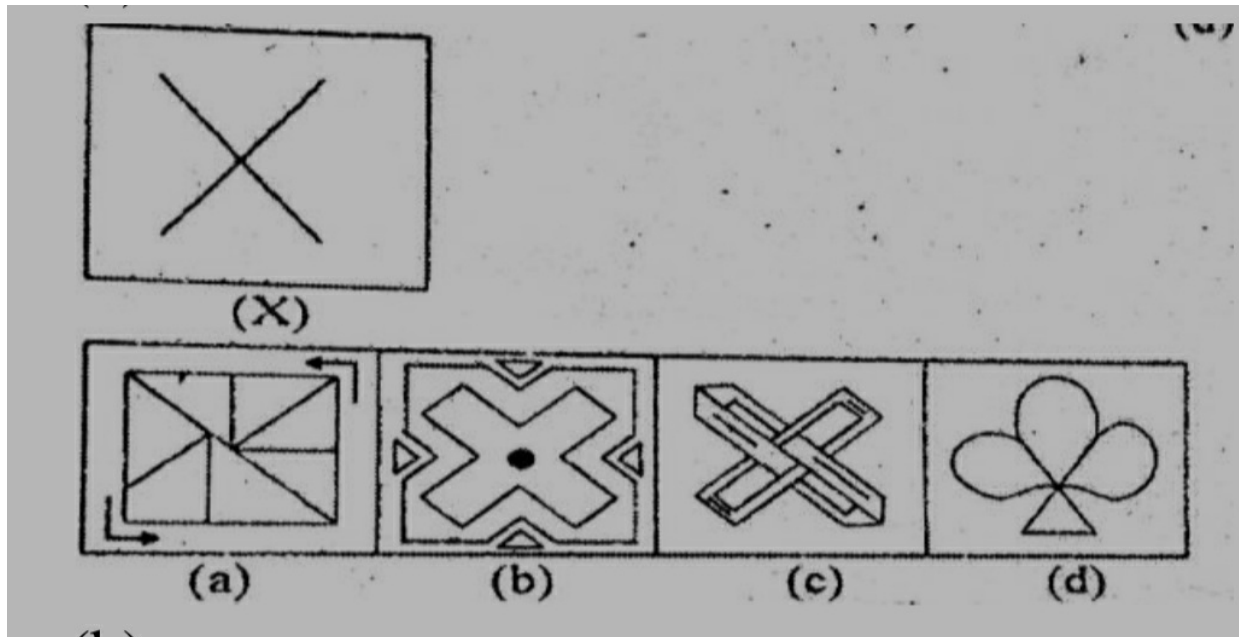


- A. Q
- B. P
- C. R
- D. S

Why is the understanding of direction sense important in navigation?

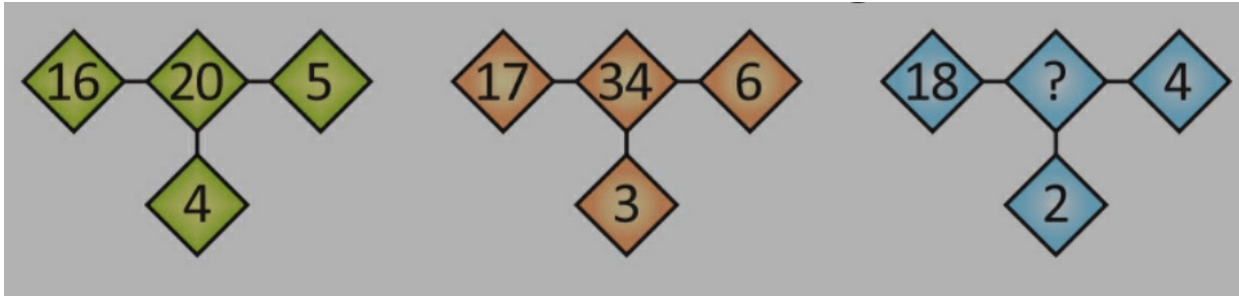
- A. It helps in understanding time
- B. It helps in identifying colors
- C. It aids in determining position and direction
- D. It assists in reading maps accurately

Choose the right option in which the given figure 'x' is embedded



- A. a)
- B. b)
- C. c)
- D. d)

Find the missing number if the same rule is followed in all the three figures.



- A. 36
  B. 18  
 C. 28
  D. 20

What would be the code for the word "JUGGLE" using the following coding pattern: J = G, U = R, G = J, L = O, E = B?

- A. GRJJOB
  B. GBRRJB  
 C. GBROJB
  D. GBRRJO

If you start facing North and turn 270 degrees clockwise, which direction will you be facing?

- A. East
  B. South  
 C. North
  D. West

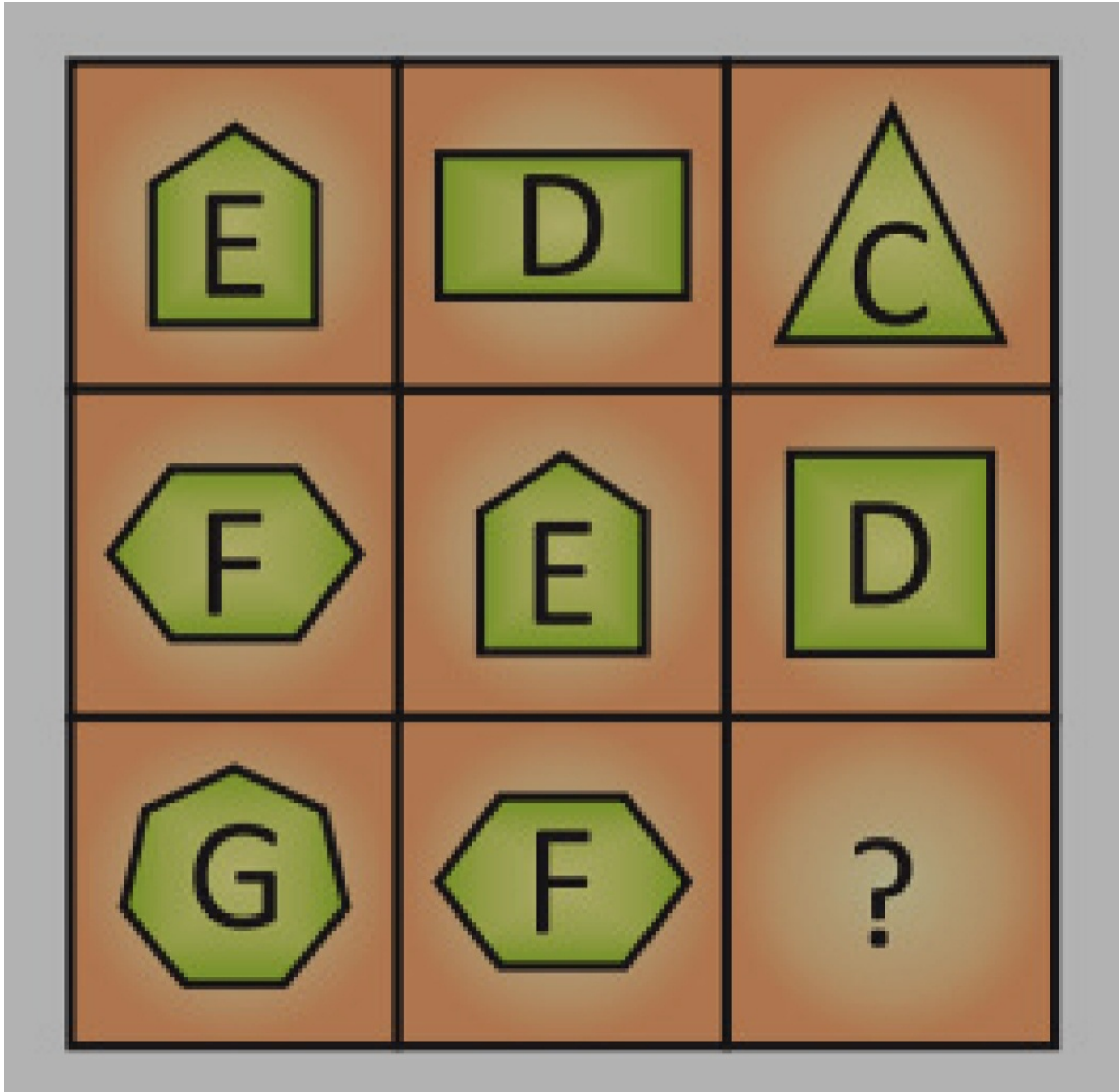
Which of the following terms best defines a puzzle?

- A. A solution to a problem
  B. A question that requires critical thinking  
 C. form of entertainment
  D. type of game

If Emma is facing South and turns 90° clockwise, in which direction is she now facing?

- A. East
- B. West
- C. North
- D. South-east

Select a figure from the options which will complete the given figure matrix.





- A. a
- B. d
- C. c
- D. d

**Question: 20 of 50**

QID: 21140

Marks: 1

Find the odd one out.

- A. River
- B. Rain
- C. Lake
- D. Pond

**Question: 21 of 50**

QID: 21146

Marks: 1

If Meenu rotates the wheel, which alphabet is least likely to come?



- A. S
- B. P
- C. Q
- D. R

**Question: 22 of 50**

QID: 21164

Marks: 1

If in a class of 30 students, Sally's rank is 18th from the top, what is her rank from the bottom?

- A. 15th
- B. 13th
- C. 12th
- D. 20th

There are \_\_\_\_\_ more circles than triangles A in the given figure



A. 22

B. 12

C. 18

D. 24

Flood : Drought :: Genius : ?

A. Think


B. Intelligence


C. Brain


D. Idiot




Select the incorrect match of mirror images of the figures shown in the options.

(a) 

(b) 

(c) 

(d) 

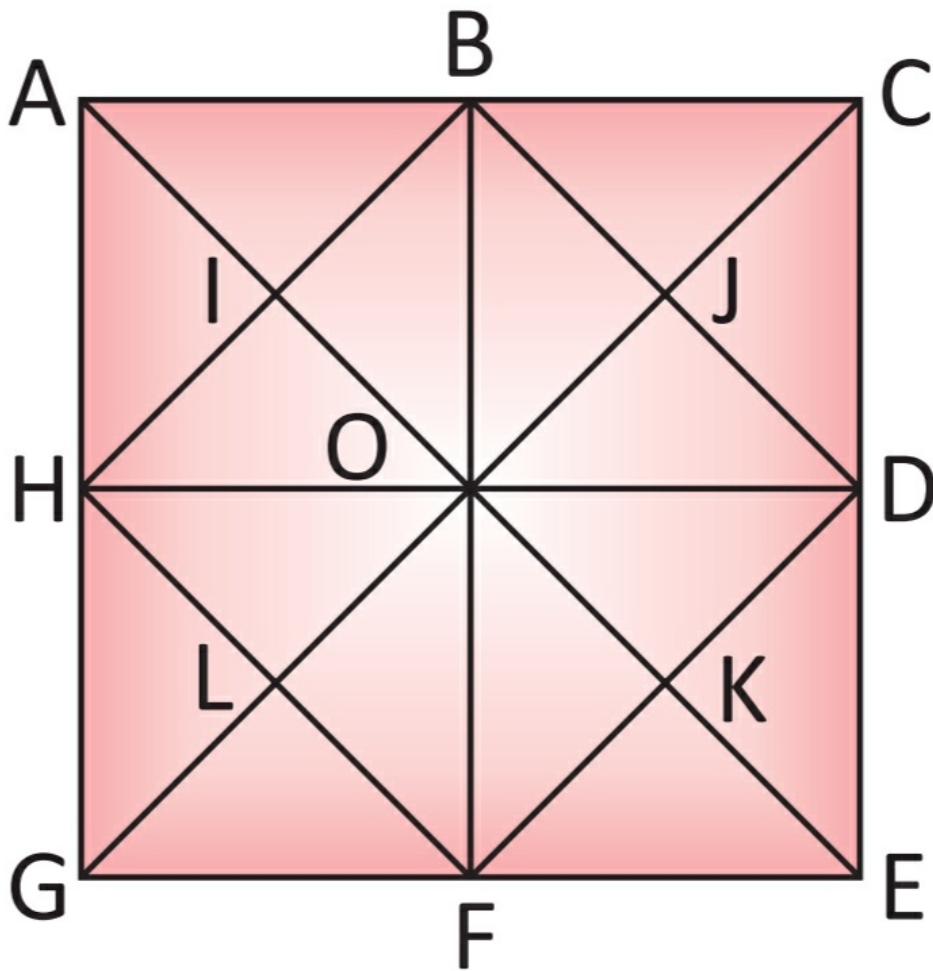
A. a)

B. b)

C. c)

D. d)

How many squares are there in the given figure?



- A. 12
- C. 8

- B. 10
- D. 5

Question: 27 of 50

QID: 21139

Marks: 1

Sandy is 12th from the right end in a row of students and Amy is 20th from the left end. After interchanging their positions, Sandy becomes 22nd from the right. How many students are there in a row?

- A. 32
- C. 29

- B. 40
- D. 41

Question: 28 of 50

QID: 21168

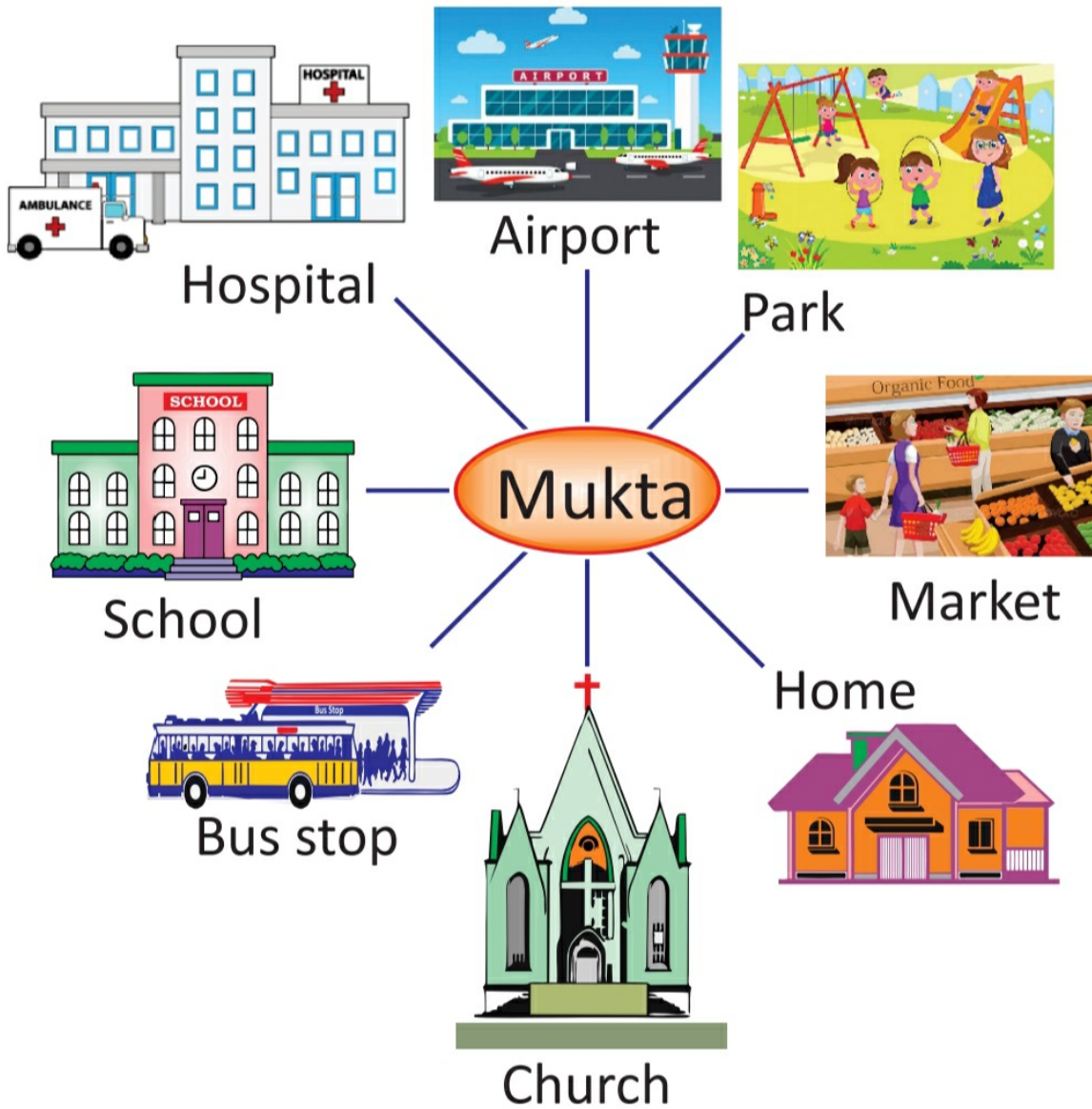
Marks: 1

If 4 pencils cost \$8, how much do 12 pencils cost?

- A. \$24
- C. \$32

- B. \$30
- D. \$36

Mukta is facing the hospital. If she turns Three right angles in clockwise direction, then what will she be facing now?



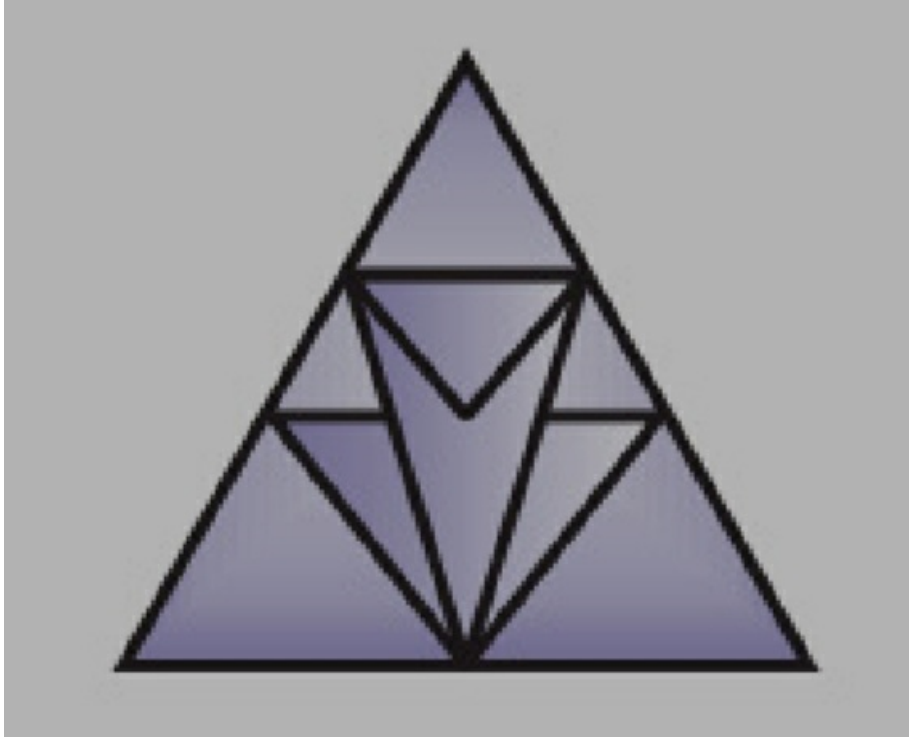
A. Church

B. Home

C. Bus stop

D. Park

Count the number of Squares in the given figure



- A. 14
  B. 15
  C. 16
  D. None of the above

## Question: 31 of 50

QID: 21180

Marks: 1

What shape has 5 sides and 5 angles?

- A. Hexagon
  B. Pentagon
  C. Octagon
  D. Square

## Question: 32 of 50

QID: 21167

Marks: 1

If triangles have three sides, and all squares are rectangles, how many sides does a square have?

- A. 4
  B. 6
  C. 5
  D. 3

## Question: 33 of 50

QID: 21148

Marks: 1

Select the correct mirror image of the figure.



Mirror

(a)



(b)



(c)



(d)



- A. a
- C. c

- B. b
- D. d

**Question: 34 of 50**

QID: 21175

Marks:1

How does a ranking test provide insights in a competitive scenario?

- A. It measures individual performance
- B. It evaluates the weather conditions
- C. It determines historical events
- D. It estimates future predictions

**Question: 35 of 50**

QID: 21176

Marks:1

What distinguishes a prime number?

- A. It can be divided by only 1 and itself
- B. It is divisible by all numbers
- C. It has multiple factors
- D. It is a perfect square

**Question: 36 of 50**

QID: 21142

Marks: 1

HAND : IBOE :: MIKE : ?

- A. NLJF
- B. NJLF
- C. NJFL
- D. NFJL

**Question: 37 of 50**

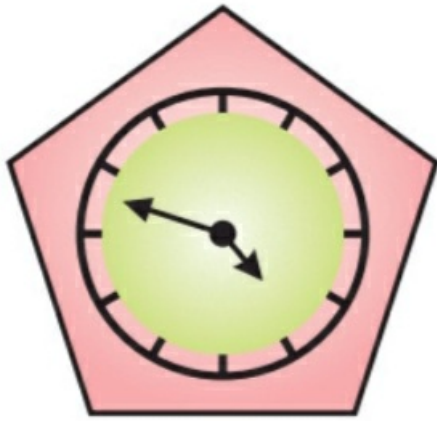
QID: 21135

Marks: 1

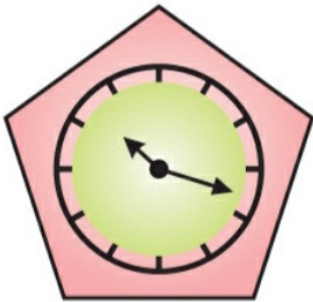
If day before yesterday was Friday, then what day will be tomorrow?

- A. Monday
- B. Sunday
- C. Tuesday
- D. Saturday

Find the image which will be the reflection of image 'x' in water



(a)



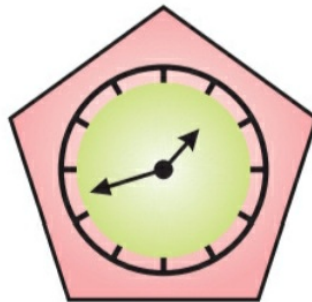
(b)



(c)



(d)



'x'

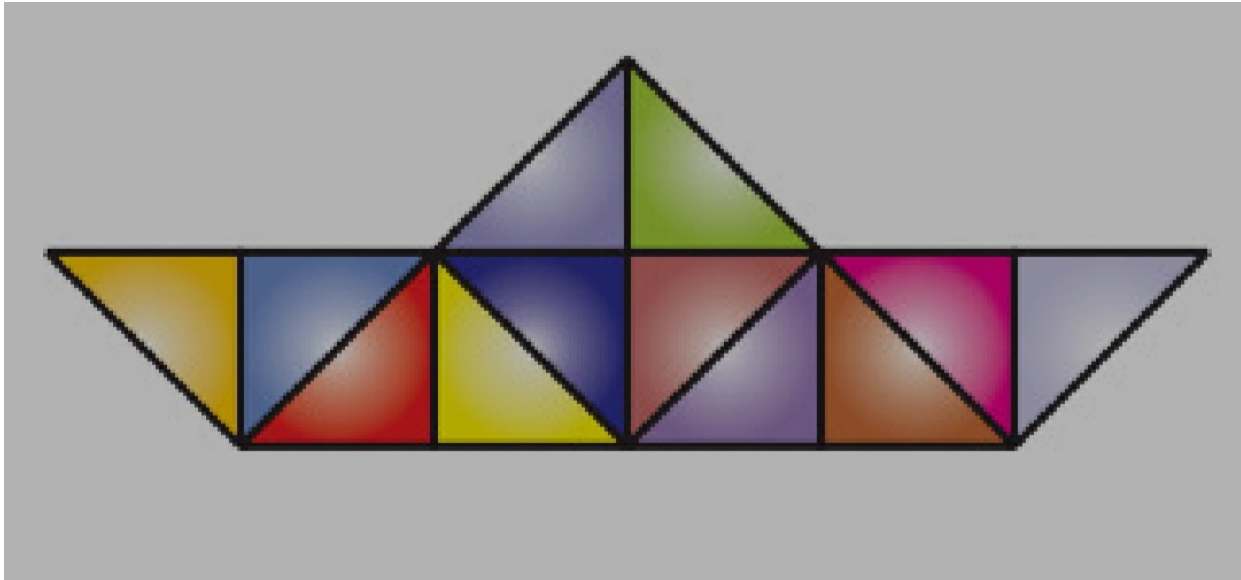
A. a

B. b

C. c

D. d

Find the number of triangles in the given figure.



- A. 23
  B. 24
  C. 21
  D. none of the above

How many groups of 5 candies can be formed from the given candies?



- A. 5
  B. 6
  C. 4
  D. 3

If John is facing West and turns  $135^\circ$  clockwise, in which direction is he facing now?

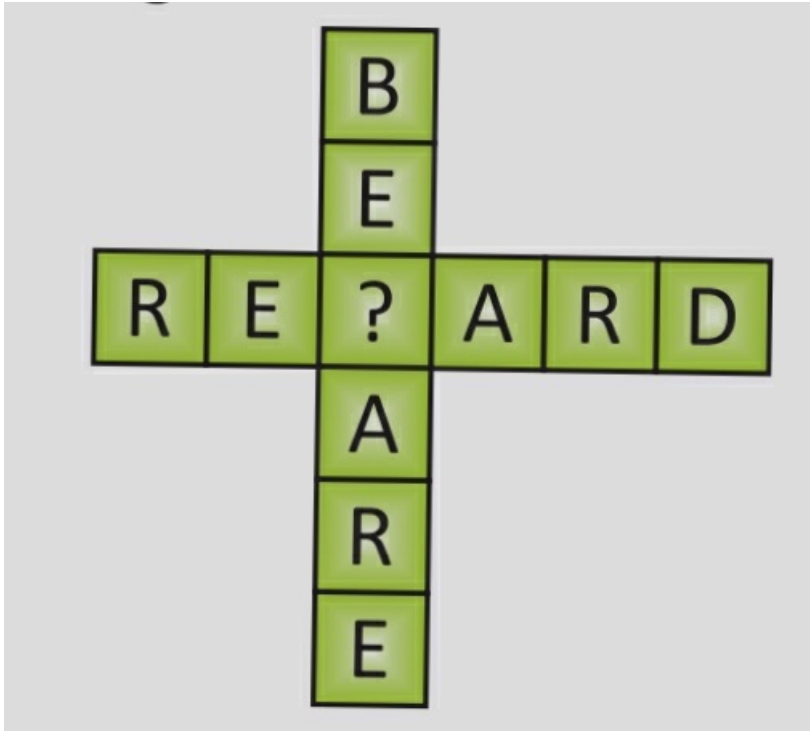
- A. South-East
  B. North-West
  C. South-east
  D. North-east



Which number will be the next in the pattern given below? 3, 8, 15, 24, 35, 48, ?

- A. 60
- B. 63
- C. 73
- D. 76

Choose the letter which will complete both the given words

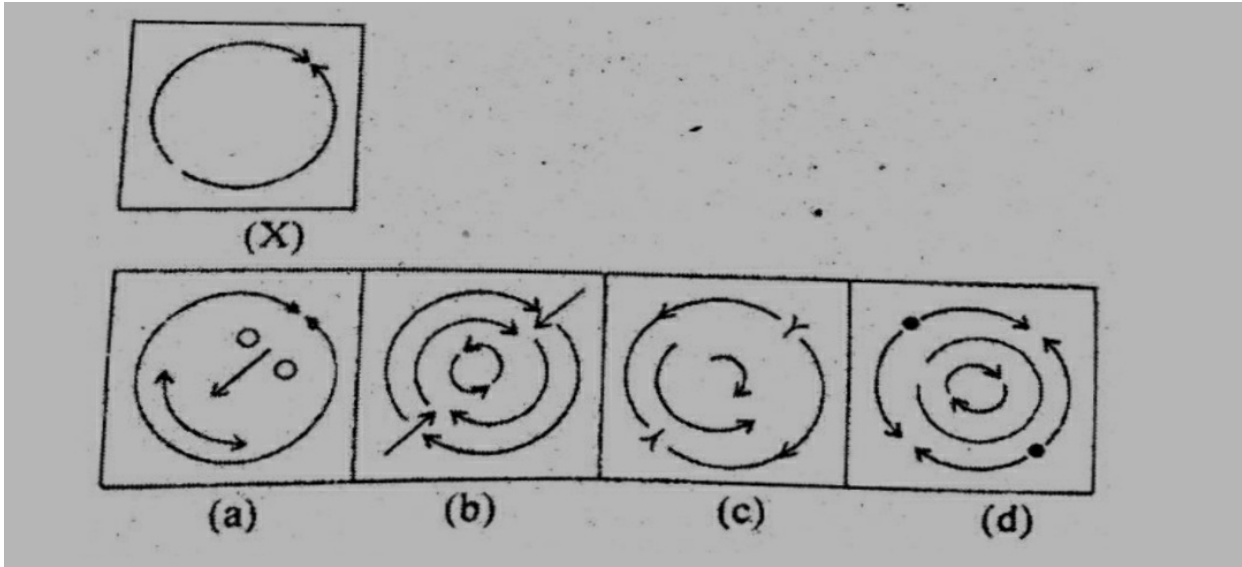


- A. Z
- B. W
- C. R
- D. E

If 'East' is called 'North', 'North' is called 'West', 'West' is called 'South', and 'South' is called 'East', what is the direction for sunrise?

- A. West
- B. South
- C. North
- D. East

Choose the right option in which the given figure 'x' is embedded



- A. a
- C. c

- B. b
- D. d

Question: 46 of 50

If a car moves 20 km towards the North and then turns left and moves 15 km, how far is it from the starting point?

- A. 35KM
- C. 25KM

- B. 20KM
- D. 30KM

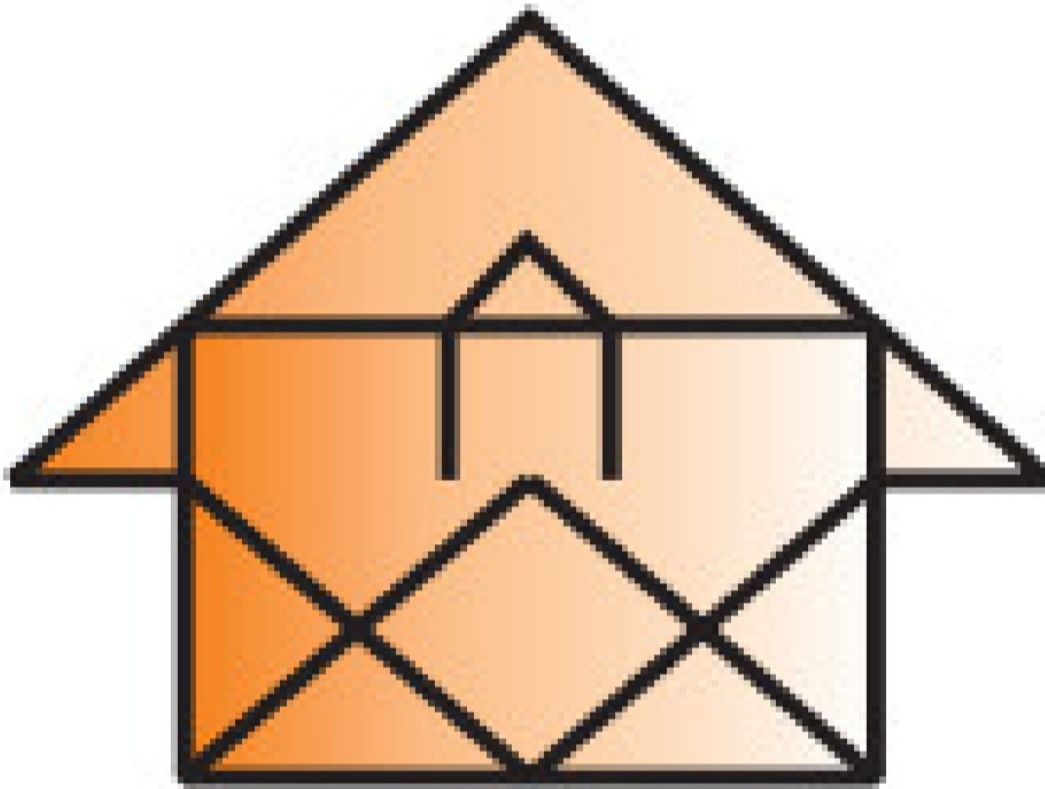
Question: 47 of 50

If CAT is written as 312, DOG as 415, how would FISH be coded?

- A. 5189
- C. 4189

- B. 5218
- D. 8215

Count the number of triangles in the given figure.



A. 20

B. 16

C. 22

D. none of the above

What does the term "symmetry" refer to in mathematics?

A. shape with uneven sides

B. shape with equal sides

C. shape with a balance in size and shape

D. shape that can be divided into equal parts that mirror each other

Amy and Nash have invited friends to celebrate their wedding anniversary four days after the third Tuesday of August 20XX. The date of their wedding anniversary is \_\_\_\_\_.

August 20XX						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- A. 20 August
- B. 21 August
- C. 22 August
- D. 7th August

-- END OF QUESTION PAPER --