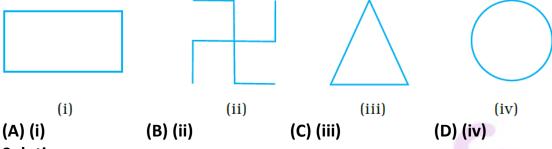


EXERCISE PAGE: 136

In questions 1 to 17, out of the given four options, only one is correct. Write the correct answer.

1. In the following figures, the figure that is not symmetric with respect to any line is:



Solution:-

(B) (ii)

A figure is said to have line symmetry, if by folding the figure along a line, the left and right parts of it coincide exactly. The line is called the line (or axis) of symmetry of the figure.

2. The number of lines of symmetry in a scalene triangle is

(A) 0 (B) 1 (C) 2 (D) 3

Solution:-

(A) 0

A scalene triangle is a triangle that has three unequal sides.

Therefore, there is no lines of symmetry in a scalene triangle.

3. The number of lines of symmetry in a circle is

(A) 0 (B) 2 (C) 4 (D) more than 4

Solution:-

(D) more than 4

4. Which of the following letters does not have the vertical line of symmetry?

(A) M (B) H (C) E (D) V

Solution:-(C) E





5. Which of the following	ng letters have both	horizontal and v	vertical lines of	symmetry?
---------------------------	----------------------	------------------	-------------------	-----------

(A) X

(B) E

(C) M

(D) K

Solution:-

(A) X



6. Which of the following letters does not have any line of symmetry?

(A) M

(B) S

(C) K

(D) H

Solution:-

(B) S



7. Which of the following letters has only one line of symmetry?

(A) H

(B) X

(C) Z

(D) T

Solution:-

(D) T



8. The instrument to measure an angle is a

(A) Ruler

(B) Protractor

(C) Divider

(D) Compasses

Solution:-

(B) Protractor

An instrument for measuring angles, typically in the form of a flat semicircle marked with degrees along the curved edge.

9. The instrument to draw a circle is

(A) Ruler

(B) Protractor

(C) Divider

(D) Compasses

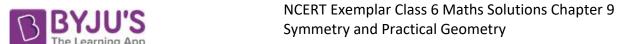
Solution:-

(D) Compasses

The instrument to draw a circle is compasses.



10. Number of set squares in the geometry box is						
(A) 0	(B) 1	(C) 2	(D) 3			
Solution:-						
(C) 2						
11. The number of	f lines of symmetry	in a ruler is				
(A) 0	(B) 1	(C) 2	(D) 4			
Solution:-						
(C) 2						
	er has shape of rect	angle,				
	lines of symmetry i					
•	,					
12. The number of	f lines of symmetry	in a divider is				
(A) 0	(B) 1	(C) 2	(D) 3			
Solution:-	•		1 60			
(B) 1						
• •	es of symmetry in a	divider is 1.				
	,					
13. The number of	f lines of symmetry	in compasses is				
(A) 0	(B) 1	(C) 2	(D) 3			
Solution:-		O.V	` ,			
(A) 0						
, , , , , , , , , , , , , , , , , , ,						
9/						
Therefore, there is	s no lines of symme	try in a compasses.				
14. The number of	f lines of symmetry	in a protractor is				
(A) 0	(B) 1	(C) 2	(D) more than 2			
Solution:-	(6) 1	(0) 2	(b) more than 2			
(B) 1						
(0) 1						



Therefore, there is only one lines of symmetry in a protractor.

(A) 0	(B) 1	(C) 2	5° – 90° set-square is (D) 3	
Solution:-				
(B) 1				
From the ques	tion it is given th	nat, measurement o	of isosceles triangle.	
So, the numbe	r of lines of sym	metry in given set-	square is 1.	
*	_			
16. The numbe	er of lines of syn	nmetry in a 30° - 60	0° - 90° set square is	
(A) 0	(B) 1	(C) 2	(D) 3	
Solution:-				
(A) 0				
•		nat, measurement of metry in given set-	_	
17. The instrur	nent in the geor	metry box having t	he shape of a triangle i	s called a
(A) Protractor		(B) C	ompasses	
(C) Divider		(D) S	et-square	
Solution:-				
(D) Set-square				

In questions 18 to 42, fill in the blanks to make the statements true.

18. The distance of the image of a point (or an object) from the line of symmetry

(mirror) is _____ as that of the point (object) from the line (mirror).

Solution:-

The distance of the image of a point (or an object) from the line of symmetry (mirror) is <u>same</u> as that of the point (object) from the line (mirror).

19. The number of lines of symmetry in a picture of Taj Mahal is ______.



Solution:-

The number of lines of symmetry in a picture of Taj Mahal is one.

20. The number of lines of symmetry in a rectangle and a rhombus are (equal/unequal).

Solution:-

The number of lines of symmetry in a rectangle and a rhombus are equal.

21. The number of lines of symmetry in a rectangle and a square are (equal/unequal).

Solution:-

The number of lines of symmetry in a rectangle and a square are <u>unequal</u>.

22. If a line segment of length 5cm is reflected in a line of symmetry (mirror), then its reflection (image) is a _____ of length _____. Solution:-

If a line segment of length 5cm is reflected in a line of symmetry (mirror), then its reflection (image) is a line segment of length 5cm.

23. If an angle of measure 80° is reflected in a line of symmetry, then the reflection is an _____ of measure _____.

Solution:-

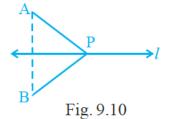
Solution:-

If an angle of measure 80° is reflected in a line of symmetry, then the reflection is an angle of measure 80°.

24. The image of a point lying on a line I with respect to the line of symmetry I lies on

The image of a point lying on a line I with respect to the line of symmetry I lies on line I.

25. In Fig. 9.10, if B is the image of the point A with respect to the line I and P is any point lying on I, then the lengths of line segments PA and PB are .





Solution:-

In Fig. 9.10, if B is the image of the point A with respect to the line I and P is any point lying on I, then the lengths of line segments PA and PB are <u>equal</u>.

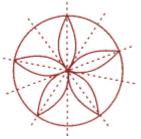
26. The number of lines of symmetry in Fig. 9.11 is . .



Fig. 9.11

Solution:-

The number of lines of symmetry in Fig. 9.11 is <u>5</u>.



27. The common properties in the two set-squares of a geometry box are that they have a _____ angle and they are of the shape of a _____.

Solution:-

The common properties in the two set-squares of a geometry box are that they have a right angle and they are of the shape of a triangle.

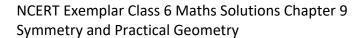
28. The digits having only two lines of symmetry are_____ and _____. Solution:-

The digits having only two lines of symmetry are $\underline{0}$ and $\underline{8}$.

29. The digit having only one line of symmetry is _____. Solution:-

The digit having only one line of symmetry is 3.

30. The number of digits having no line of symmetry is_____. Solution:-





The number of digits having no line of symmetry is <u>7</u>. The digits having no line of symmetry are 1 4, 5, 6, 7 and 9

