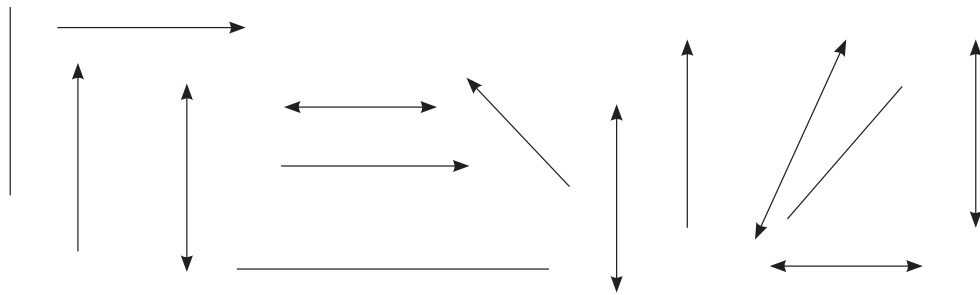


# Lines and Angles

Q1. Identify and count the number of lines, line segments and rays:



- a. Number of line segments : \_\_\_\_\_  
 b. Number of rays : \_\_\_\_\_  
 c. Number of lines : \_\_\_\_\_

Q2. Look at the angles given below. Identify the type of angle and fill in the table:

Figure	Type of angle	Name of the angle
	_____	_____
	_____	_____
	_____	_____

	_____	_____
	_____	_____

Q3. Rearrange the jumbled words given in the box to form the name of a triangle. Fill in the blanks with the correct name:

ENLASCE            SELCIOSSE  
 QTLRLEUIAAE

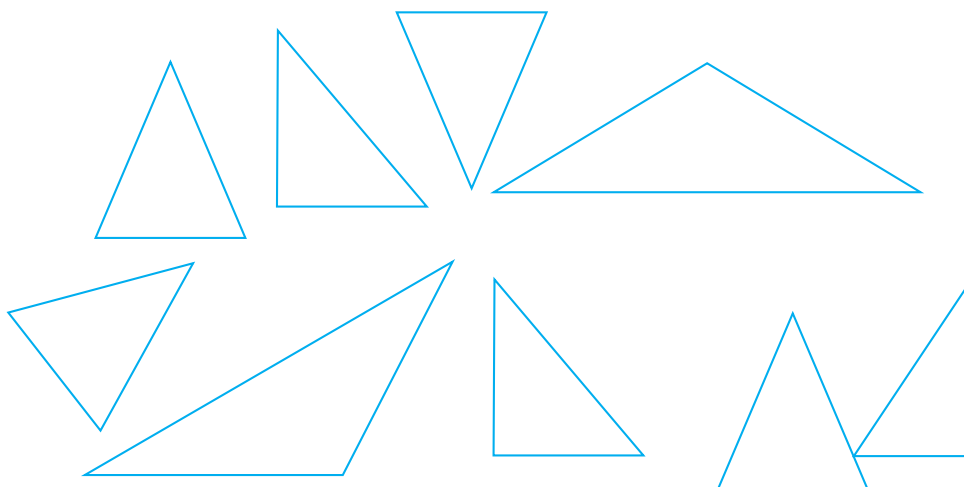
- a. A triangle having two equal sides: \_\_\_\_\_
- b. A triangle whose all sides are equal: \_\_\_\_\_
- c. A triangle whose all sides are of different measures: \_\_\_\_\_

Q4. Rashmi has cut the following triangles for her project. Now she has to colour them according to the key given by their teacher.

Acute angled triangle: Red

Obtuse angled triangle: Green

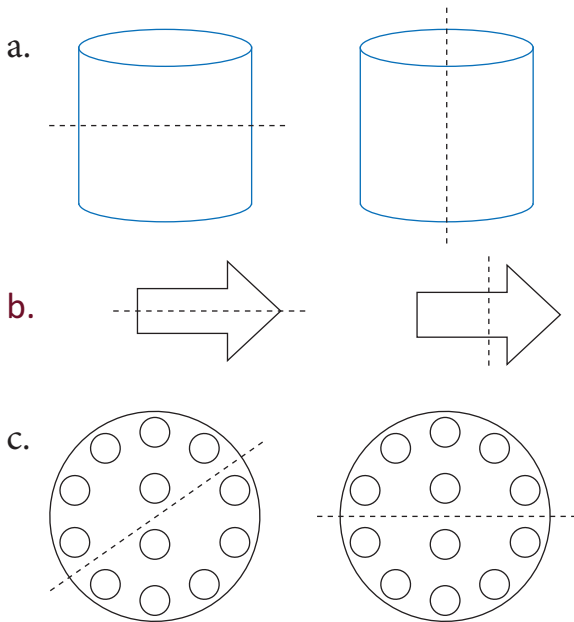
Right angled triangle: Yellow



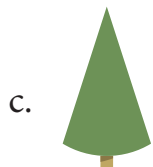
Q5. Cross-out (✕) the object that is not symmetrical:



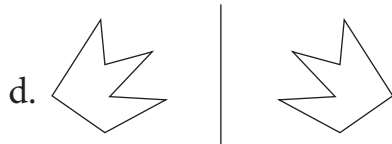
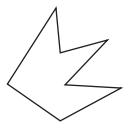
Q6. Out of the two objects, circle the picture that shows the correct line of symmetry in the following:







Q7. Draw the line of symmetry for the following:




Q8. Choose the correct reflection of the following figure:



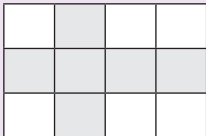

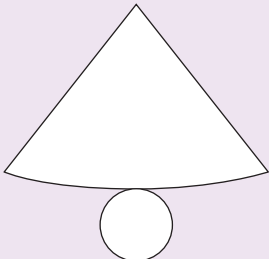
Q9. Put a tick for the figures that correctly show how the following figure will look like after 2 quarter rotations.

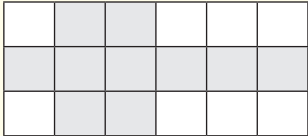

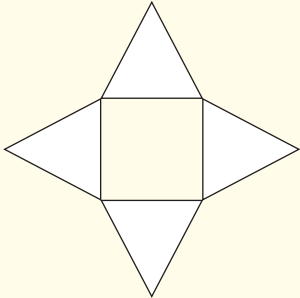
Figure	After 2 quarter rotations	Is it Correct ?
		
		

Q10. Draw the correct figure giving 3 half rotations to the following figure:

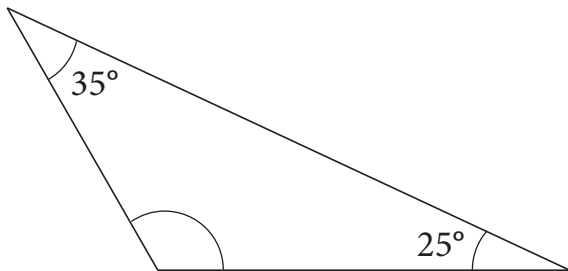
Figure	After 1 <sup>st</sup> quarter rotation	After 2 <sup>nd</sup> quarter rotation	After 3 <sup>rd</sup> quarter rotation
			

Q11. Match the nets with the corresponding 3D shape:

	Cylinder
	Cuboid
	Cube

	Square pyramid
	Cone
	Triangular prism

Q12. Find the third angle of the following triangle:



Answer: \_\_\_\_\_

Q13. Write Yes or No for the following:

Can a triangle have:

- Two acute angles: \_\_\_\_\_
- Two right angles: \_\_\_\_\_
- Two obtuse angles: \_\_\_\_\_

Q14. The measure of each angle of a  $\Delta PQR$  is  $60^\circ$ . If  $PQ=6$  cm, find the measure of the other two sides.

Answer: \_\_\_\_\_

Q15. Choose the correct option:

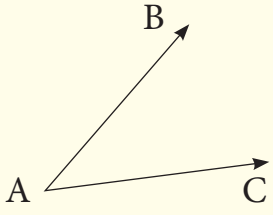
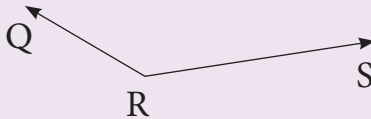
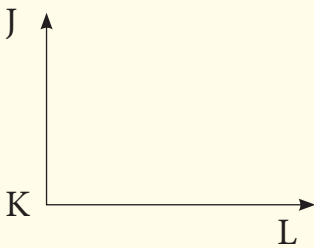
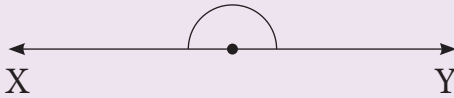
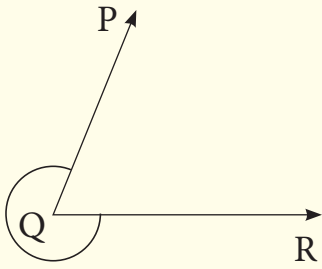
In a  $\Delta ABC$ ,  $\angle A= 30^\circ$ ,  $\angle B= 60^\circ$ . Which type of triangle is  $\Delta ABC$ ?

- a. Acute angled triangle
- b. Obtuse angled triangle
- c. Right angled triangle

# ANSWERS

1. a. 3; b. 5; c. 6

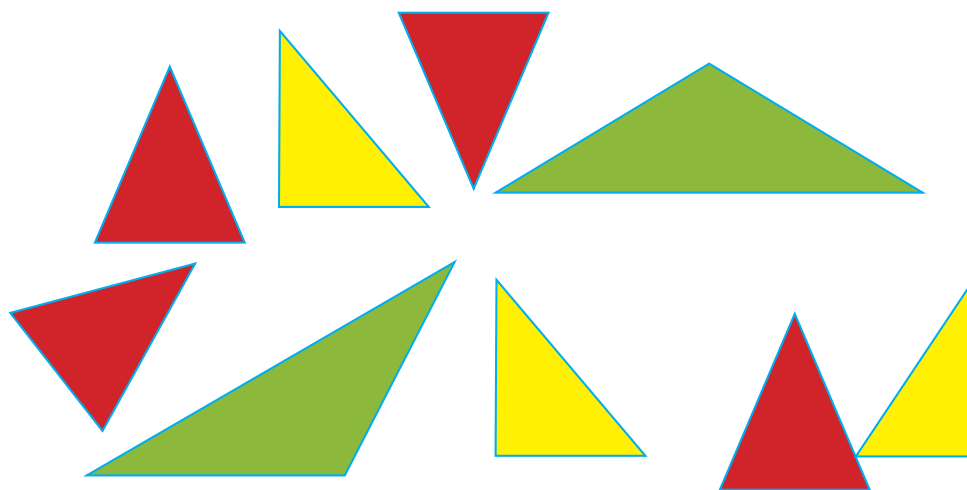
2.

Figure	Type of angle	Name of the angle
	Acute angle	$\angle BAC$
	Obtuse angle	$\angle QRS$
	Right angle	$\angle JKL$
	Straight angle	$\angle XOY$
	Reflex angle	$\angle PQR$

3. a. Isosceles triangle  
 b. Equilateral triangle  
 c. Scalene triangle



4.

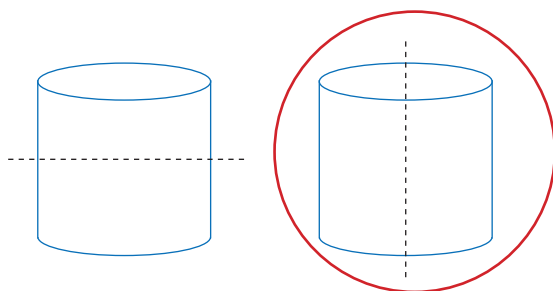


5.

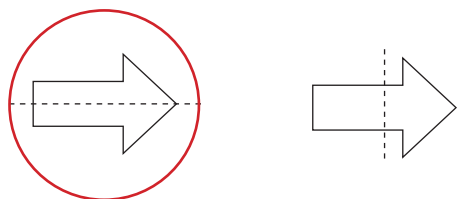


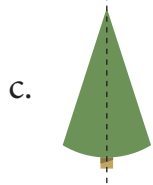
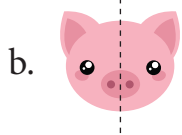
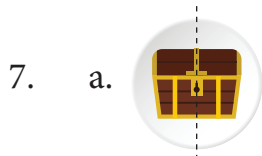
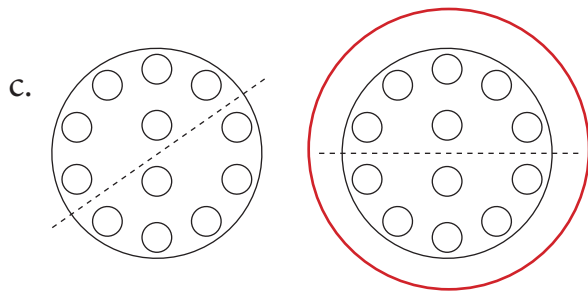
6.

a.



b.





8. (d)

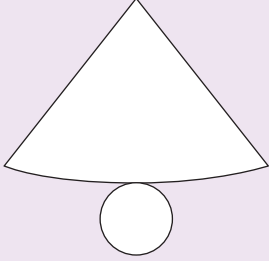
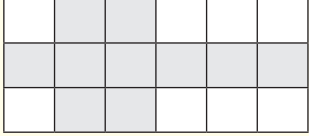

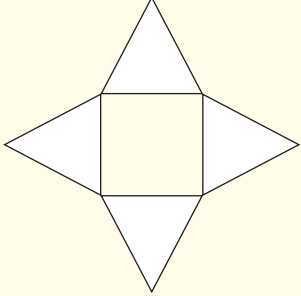
9. a. ✘; b. ✔

10.

Figure	After 1 <sup>st</sup> quarter rotation	After 2 <sup>nd</sup> quarter rotation	After 3 <sup>rd</sup> quarter rotation

11.

	Cube
	Cylinder

	Cone
	Cuboid
	Triangular prism
	Square pyramid

12.  $120^\circ$
13.
  - a. Yes
  - b. No
  - c. No
14. 6 cm, 6cm
15. Right-angled triangle