

Understanding Elementary Shapes

Question 1.

A quadrilateral having one pair of sides parallel is called:

- (a) square
- (b) trapezium
- (c) rectangle
- (d) none of these

Answer: (b) trapezium

Question 2.

A triangular prism has:

- (a) 9 faces
- (b) 8 faces
- (c) 7 faces
- (d) 5 faces

Answer: (d) 5 faces

Question 3.

Where will the hand of a clock stop if it starts at 2 and makes $\frac{1}{2}$ of a revolution, clockwise?

- (a) 5
- (b) 8
- (c) 11
- (d) None of these

Answer: (b) 8

Question 4.

An angle whose measure is equal to half of a revolution is

- (a) right angle

- (b) acute angle
- (c) straight angle
- (d) obtuse angle

Answer: (c) straight angle

Question 5.

A quadrilateral whose opposite sides are parallel is called:

- (a) square
- (b) rectangle
- (c) parallelogram
- (d) none of these

Answer: (c) parallelogram

Question 6.

A quadrilateral whose all the sides are equal and each angle is 90° is called a:

- (a) square
- (b) rhombus
- (c) rectangle
- (d) trapezium

Answer: (a) square

Question 7.

Where will the hand of a clock stop if it starts at 12 and makes $\frac{3}{4}$ of a revolution, clockwise?

- (a) 6
- (b) 9
- (c) 3
- (d) None of these

Answer: (b) 9

Question 8.

When the sum of the measures of two angles is that of a right angle, then each one of them is _____.

- (a) obtuse angle
- (b) acute angle
- (c) straight angle
- (d) right angle

Answer: (b) acute angle

Question 9.

How many degrees are there in two right angles?

- (a) 90°
- (b) 180°
- (c) 270°
- (d) 360°

Answer: (b) 180°

Question 10.

An angle formed by two opposite rays is called a:

- (a) complete angle
- (b) zero angle
- (c) straight angle
- (d) right angle

Answer: (c) straight angle

Question 11.

Where will the hand of a clock stop if it starts at 3 and makes $\frac{3}{4}$ of a revolution, clockwise?

- (a) 6
- (b) 12
- (c) 9
- (d) None of these

Answer: (b) 12

Question 12.

How many centimetres make 3m?

- (a) 100
- (b) 30
- (c) 300
- (d) 3000

Answer: (c) 300

Question 13.

When an arm of an angle is extended then how does its measure change?

- (a) Doubled
- (b) Tripled
- (c) Remains the same
- (d) Halved

Answer: (c) Remains the same

Question 14.

Triangle having the angles 40° , 30° , 110° is called:

- (a) acute angled triangle
- (b) obtuse angled triangle
- (c) right triangle
- (d) none of these

Answer: (b) obtuse angled triangle

Question 15.

An angle which is greater than a right angle but less than a straight angle is called:

- (a) an acute angle
- (b) an obtuse angle
- (c) a complete angle
- (d) straight angle

Answer: (b) an obtuse angle

Question 16.

What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 7 to 10?

- (a) $\frac{1}{2}$
- (b) $\frac{1}{4}$
- (c) $\frac{1}{3}$
- (d) None of these

Answer: (b) $\frac{1}{4}$

Question 17.

What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes

from 3 to 9?

- (a) $\frac{1}{3}$
- (b) 1
- (c) $\frac{1}{4}$
- (d) $\frac{1}{2}$

Answer: (d) $\frac{1}{2}$

Question 18.

What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 1 to 10?

- (a) $\frac{3}{4}$
- (b) $\frac{1}{4}$
- (c) More than $\frac{3}{4}$
- (d) none of these

Answer: (a) $\frac{3}{4}$

Question 19.

A triangle having the angles 45° , 75° , 60° is called:

- (a) acute angled triangle
- (b) obtuse angled triangle
- (c) right triangle
- (d) none of these

Answer: (a) acute angled triangle

Question 20.

An angle which is greater than a zero angle but less than a right angle is called:

- (a) an obtuse angle
- (b) a complete angle
- (c) an acute angle
- (d) none of these

Answer: (c) an acute angle

Question 21.

l and m are two lines perpendicular to each other. What is the measure of the angle between them?

- (a) 10°
- (b) 50°
- (c) 40°
- (d) 90°

Answer: (d) 90°

Question 22.

What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 3 to 6?

- (a) $\frac{1}{4}$
- (b) 1
- (c) $\frac{1}{2}$
- (d) None of these

Answer: (a) $\frac{1}{4}$

Question 23.

A triangle having sides 6 cm, 6 cm, 6 cm is called:

- (a) scalene triangle
- (b) equilateral triangle
- (c) isosceles triangle
- (d) none of these

Answer: (b) equilateral triangle

Question 24.

A triangle whose all sides are equal is:

- (a) a scalene triangle
- (b) an equilateral triangle.
- (c) an isosceles triangle
- (d) none of these

Answer: (b) an equilateral triangle.

Question 25.

An angle whose measure is equal to a full revolution is

- (a) complete angle
- (b) right angle
- (c) obtuse angle
- (d) straight angle

Answer: (a) complete angle

Question 26.

An angle whose measure is greater than that of a right angle is _____.

- (a) right angle
- (b) straight angle
- (c) acute angle
- (d) obtuse angle

Answer: (d) obtuse angle

Question 27.

A triangle having sides 4.5 cm, 5.5 cm, 6.5 cm is called:

- (a) scalene triangle
- (b) equilateral triangle
- (c) isosceles triangle
- (d) none of these

Answer: (a) scalene triangle

Question 28.

If the initial and final positions of a ray coincide without making any rotation the angle formed is:

- (a) zero angle
- (b) an acute angle
- (c) an obtuse angle
- (c) none of these

Answer: (a) zero angle

Question 29.

What is an angle which measures more than 0° and less than 90° called?

- (a) Obtuse angle
- (b) Acute angle
- (c) Right angle
- (d) Straight angle

Answer: (b) Acute angle

Question 30.

Where will the hand of a clock stop if it starts at 6 and makes $\frac{3}{4}$ of a revolution, clockwise?

- (a) 3
- (b) 12
- (c) 9
- (d) 6

Answer: (a) 3

Question 31.

A triangle having angles 30° , 60° , 90° is called:

- (a) acute angled triangle
- (b) obtuse angled triangle
- (c) right triangle
- (d) none of these

Answer: (c) right triangle

Question 32.

If two lines are perpendicular to each other then the angles between them is:

- (a) 90°
- (b) 45°
- (c) 180°
- (d) 0°

Answer: (a) 90°

Question 33.

How is the measure of an angle expressed?

- (a) Compasses
- (b) Protractor
- (c) Degrees
- (d) Centimetres

Answer: (c) Degrees

Question 34.

When the sum of the measures of two angles is that of a straight angle and if one of them is acute then the other should be _____.

- (a) obtuse
- (b) straight
- (c) right
- (d) acute

Answer: (a) obtuse

Question 35.

A quadrilateral whose all sides are equal is called:

- (a) a square
- (b) a rhombus
- (c) rectangle
- (d) none of these

Answer: (b) a rhombus

Question 36.

A triangle whose each angle is less than 90° is:

- (a) an obtuse triangle
- (b) an acute triangle
- (c) an equilateral triangle
- (d) none of these

Answer: (b) an acute triangle

Question 37.

What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from 5 to 11?

- (a) $\frac{1}{2}$
- (b) More than $\frac{1}{4}$
- (c) $\frac{3}{4}$
- (d) none of these

Answer: (a) $\frac{1}{2}$

Question 38.

An angle whose measure is equal to one-fourth of a revolution is

- (a) right angle
- (b) straight angle
- (c) obtuse angle
- (d) acute angle

Answer: (a) right angle

Question 39.

A quadrilateral having equal opposite sides and each angle of 90° is called:

- (a) square
- (b) rectangle
- (c) rhombus
- (d) parallelogram

Answer: (b) rectangle

Question 40.

A triangle whose two sides are equal is:

- (a) a scalene triangle
- (b) an isosceles triangle
- (c) an equilateral triangle
- (d) a right triangle

Answer: (b) an isosceles triangle

Question 41.

At 5:20 what type of angle is formed between the two hands of a clock?

- (a) An obtuse angle
- (b) A right angle
- (c) An acute angle
- (d) A reflex angle

Answer: (c) An acute angle

Question 42.

179° is an example of which of these angles?

- (a) An obtuse angle
- (b) An acute angle

- (c) A right angle
- (d) A straight angle

Answer: (a) An obtuse angle

Fill in the blanks:

1. A quadrilateral can be divided into triangles.

Answer: two

2. A pentagon can be divided into triangles

Answer: three

3. A three sided polygon is a

Answer: triangle

4. 4 sided polygon is a

Answer: quadrilateral

5. In an equilateral triangle all the angles are

Answer: 60°

6. How many degrees are there in a complete angle?

Answer: 360°

7. Which instrument is used for measuring angles?

Answer: protractor

8. Measure of a straight angle is

Answer: 180°

9. Measure of a right angle is

Answer: 90°

10. Measure of zero angle is

Answer: 0°

Match the following:

1.

(a) An ice-cream cone	(i) sphere
(b) A book	(ii) cylinder
(c) A football	(iii) cone
(d) A dice	(iv) cuboid
(e) A new pencil	(v) cube

Answer:

(a) An ice-cream cone	(iii) cone
(b) A book	(iv) cuboid
(c) A football	(i) sphere
(d) A dice	(v) cube
(e) A new pencil	(ii) cylinder
