



THE MATH HUB

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GEOMETRY MCQs **LINES, ANGLES, TRIANGLES, POLYGONS** **& CIRCLES**

100 FULLY SOLVED MCQs

PPSC, FPSC & ONE PAPER EXAMS

NTS • CSS MPT • PMS • Government Job Tests

Angles • Triangles • Polygons • Circles • Pythagoras

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GEOMETRY MCQs: LINES, ANGLES, TRIANGLES, POLYGONS & CIRCLES | 100 FULLY SOLVED MCQs**Fast Foundation for One-Paper Exams****Straight line**

Angles on a straight line = 180°

Around a point

Angles around a point = 360°

Triangle

$$A + B + C = 180^\circ$$

Polygon interior sum

$$(n - 2)180^\circ$$

Pythagoras

$$a^2 + b^2 = c^2$$

Circle basics

$$d = 2r, \quad \angle \text{ in a semicircle} = 90^\circ$$

Lines and Angles**MCQ 1**

One angle on a straight line is 35° . Find the adjacent angle.

- A. 145° B. 155°
C. 135° D. 35°

Solution

$$x + 35^\circ = 180^\circ$$

$$x = 145^\circ$$

Final Answer**145°****MCQ 2**

One angle on a straight line is 42° . Find the adjacent angle.

- A. 148° B. 138°
C. 128° D. 42°

Solution

$$x + 42^\circ = 180^\circ$$

$$x = 138^\circ$$

Final Answer**138°****MCQ 3**

One angle on a straight line is 55° . Find the adjacent angle.

- A. 135° B. 115°
C. 125° D. 55°

Solution

$$x + 55^\circ = 180^\circ$$

$$x = 125^\circ$$

Final Answer**125°****MCQ 4**

One angle on a straight line is 68° . Find the adjacent angle.

- A. 122° B. 102°
C. 68° D. 112°

Solution

$$x + 68^\circ = 180^\circ$$

$$x = 112^\circ$$

Final Answer**112°****MCQ 5**

One angle on a straight line is 73° . Find the adjacent angle.

- A. 107° B. 117°
C. 97° D. 73°

Solution

$$x + 73^\circ = 180^\circ$$

$$x = 107^\circ$$

Final Answer**107°****MCQ 6**

One angle on a straight line is 84° . Find the adjacent angle.

- A. 106° B. 96°
C. 86° D. 84°

Solution

$$x + 84^\circ = 180^\circ$$

$$x = 96^\circ$$

Final Answer**96°****MCQ 7**

One angle on a straight line is 95° . Find the adjacent angle.

- A. 95° B. 75°
C. 85° D. 86°

Solution

$$x + 95^\circ = 180^\circ$$

$$x = 85^\circ$$

Final Answer**85°****MCQ 8**

One angle on a straight line is 110° . Find the adjacent angle.

- A. 80° B. 60°
C. 110° D. 70°

Solution

$$x + 110^\circ = 180^\circ$$

$$x = 70^\circ$$

Final Answer**70°**

MCQ 9

One angle on a straight line is 125° . Find the adjacent angle.

- A. 55° B. 65°
C. 45° D. 125°

Solution

$$x + 125^\circ = 180^\circ$$

$$x = 55^\circ$$

Final Answer**55°****MCQ 10**

One angle on a straight line is 145° . Find the adjacent angle.

- A. 45° B. 35°
C. 25° D. 145°

Solution

$$x + 145^\circ = 180^\circ$$

$$x = 35^\circ$$

Final Answer**35°****MCQ 11**

Three angles around a point are $80^\circ, 90^\circ, 70^\circ$. Find the fourth angle.

- A. 130° B. 110°
C. 120° D. 60°

Solution

$$x + 80 + 90 + 70 = 360$$

$$x = 120^\circ$$

Final Answer**120°****MCQ 12**

Three angles around a point are $45^\circ, 120^\circ, 95^\circ$. Find the fourth angle.

- A. 110° B. 90°
C. 80° D. 100°

Solution

$$x + 45 + 120 + 95 = 360$$

$$x = 100^\circ$$

Final Answer**100°****MCQ 13**

Three angles around a point are $100^\circ, 85^\circ, 60^\circ$. Find the fourth angle.

- A. 115° B. 125°
C. 105° D. 65°

Solution

$$x + 100 + 85 + 60 = 360$$

$$x = 115^\circ$$

Final Answer**115°****MCQ 14**

Three angles around a point are $72^\circ, 88^\circ, 110^\circ$. Find the fourth angle.

- A. 100° B. 90°
C. 80° D. 91°

Solution

$$x + 72 + 88 + 110 = 360$$

$$x = 90^\circ$$

Final Answer**90°****MCQ 15**

Three angles around a point are $130^\circ, 50^\circ, 90^\circ$. Find the fourth angle.

- A. 100° B. 80°
C. 90° D. 91°

Solution

$$x + 130 + 50 + 90 = 360$$

$$x = 90^\circ$$

Final Answer**90°****MCQ 16**

An angle is 25° . Find its complement.

- A. 75° B. 55°
C. 115° D. 65°

Solution

$$x + 25 = 90$$

$$x = 65^\circ$$

Final Answer**65°**

MCQ 17

An angle is 38° . Find its complement.

- A. 52° B. 62°
C. 42° D. 128°

Solution

$$x + 38 = 90$$

$$x = 52^\circ$$

Final Answer **52°** **MCQ 18**

An angle is 47° . Find its complement.

- A. 53° B. 43°
C. 33° D. 137°

Solution

$$x + 47 = 90$$

$$x = 43^\circ$$

Final Answer **43°** **MCQ 19**

An angle is 59° . Find its complement.

- A. 41° B. 21°
C. 31° D. 149°

Solution

$$x + 59 = 90$$

$$x = 31^\circ$$

Final Answer **31°** **MCQ 20**

An angle is 64° . Find its complement.

- A. 36° B. 16°
C. 154° D. 26°

Solution

$$x + 64 = 90$$

$$x = 26^\circ$$

Final Answer **26°** **Triangles and Pythagoras****MCQ 21**

Two angles of a triangle are 50° and 60° . Find the third angle.

- A. 70° B. 75°
C. 65° D. 80°

Solution

$$x + 50 + 60 = 180$$

$$x = 70^\circ$$

Final Answer **70°** **MCQ 22**

Two angles of a triangle are 35° and 75° . Find the third angle.

- A. 75° B. 70°
C. 65° D. 80°

Solution

$$x + 35 + 75 = 180$$

$$x = 70^\circ$$

Final Answer **70°** **MCQ 23**

Two angles of a triangle are 45° and 45° . Find the third angle.

- A. 95° B. 85°
C. 90° D. 100°

Solution

$$x + 45 + 45 = 180$$

$$x = 90^\circ$$

Final Answer **90°** **MCQ 24**

Two angles of a triangle are 70° and 55° . Find the third angle.

- A. 60° B. 50°
C. 65° D. 55°

Solution

$$x + 70 + 55 = 180$$

$$x = 55^\circ$$

Final Answer **55°**

MCQ 25

Two angles of a triangle are 30° and 90° . Find the third angle.

- A. 60° B. 65°
C. 55° D. 70°

Solution

$$x + 30 + 90 = 180$$

$$x = 60^\circ$$

Final Answer **60°** **MCQ 26**

Two angles of a triangle are 65° and 45° . Find the third angle.

- A. 75° B. 70°
C. 65° D. 80°

Solution

$$x + 65 + 45 = 180$$

$$x = 70^\circ$$

Final Answer **70°** **MCQ 27**

Two angles of a triangle are 40° and 80° . Find the third angle.

- A. 65° B. 55°
C. 60° D. 70°

Solution

$$x + 40 + 80 = 180$$

$$x = 60^\circ$$

Final Answer **60°** **MCQ 28**

Two angles of a triangle are 25° and 95° . Find the third angle.

- A. 65° B. 55°
C. 70° D. 60°

Solution

$$x + 25 + 95 = 180$$

$$x = 60^\circ$$

Final Answer **60°** **MCQ 29**

Two angles of a triangle are 58° and 62° . Find the third angle.

- A. 60° B. 65°
C. 55° D. 70°

Solution

$$x + 58 + 62 = 180$$

$$x = 60^\circ$$

Final Answer **60°** **MCQ 30**

Two angles of a triangle are 72° and 48° . Find the third angle.

- A. 65° B. 60°
C. 55° D. 70°

Solution

$$x + 72 + 48 = 180$$

$$x = 60^\circ$$

Final Answer **60°** **MCQ 31**

Two angles of a triangle are 33° and 77° . Find the third angle.

- A. 75° B. 65°
C. 70° D. 80°

Solution

$$x + 33 + 77 = 180$$

$$x = 70^\circ$$

Final Answer **70°** **MCQ 32**

Two angles of a triangle are 85° and 35° . Find the third angle.

- A. 65° B. 55°
C. 70° D. 60°

Solution

$$x + 85 + 35 = 180$$

$$x = 60^\circ$$

Final Answer **60°**

MCQ 33

Two angles of a triangle are 20° and 110° . Find the third angle.

- A. 50° B. 55°
C. 45° D. 60°

Solution

$$x + 20 + 110 = 180$$

$$x = 50^\circ$$

Final Answer**50°****MCQ 34**

Two angles of a triangle are 67° and 53° . Find the third angle.

- A. 65° B. 60°
C. 55° D. 70°

Solution

$$x + 67 + 53 = 180$$

$$x = 60^\circ$$

Final Answer**60°****MCQ 35**

Two angles of a triangle are 49° and 71° . Find the third angle.

- A. 65° B. 55°
C. 60° D. 70°

Solution

$$x + 49 + 71 = 180$$

$$x = 60^\circ$$

Final Answer**60°****MCQ 36**

An isosceles triangle has vertex angle 20° . Find each base angle.

- A. 85° B. 75°
C. 90° D. 80°

Solution

$$2x + 20 = 180$$

$$x = \frac{180 - 20}{2} = 80^\circ$$

Final Answer**80°****MCQ 37**

An isosceles triangle has vertex angle 30° . Find each base angle.

- A. 75° B. 80°
C. 70° D. 85°

Solution

$$2x + 30 = 180$$

$$x = \frac{180 - 30}{2} = 75^\circ$$

Final Answer**75°****MCQ 38**

An isosceles triangle has vertex angle 40° . Find each base angle.

- A. 75° B. 70°
C. 65° D. 80°

Solution

$$2x + 40 = 180$$

$$x = \frac{180 - 40}{2} = 70^\circ$$

Final Answer**70°****MCQ 39**

An isosceles triangle has vertex angle 50° . Find each base angle.

- A. 70° B. 60°
C. 65° D. 75°

Solution

$$2x + 50 = 180$$

$$x = \frac{180 - 50}{2} = 65^\circ$$

Final Answer**65°**

MCQ 40

An isosceles triangle has vertex angle 60° . Find each base angle.

- A. 65° B. 55°
C. 70° D. 60°

Solution

$$2x + 60 = 180$$

$$x = \frac{180 - 60}{2} = 60^\circ$$

Final Answer

60°

MCQ 41

A right triangle has perpendicular sides 3 cm and 4 cm. Find the hypotenuse.

- A. 5 cm B. 10 cm
C. 1 cm D. 15 cm

Solution

$$c^2 = 3^2 + 4^2 = 25 = 5^2$$

$$c = 5 \text{ cm}$$

Final Answer

5 cm

MCQ 42

A right triangle has perpendicular sides 5 cm and 12 cm. Find the hypotenuse.

- A. 18 cm B. 13 cm
C. 8 cm D. 23 cm

Solution

$$c^2 = 5^2 + 12^2 = 169 = 13^2$$

$$c = 13 \text{ cm}$$

Final Answer

13 cm

MCQ 43

A right triangle has perpendicular sides 8 cm and 15 cm. Find the hypotenuse.

- A. 22 cm B. 12 cm
C. 17 cm D. 27 cm

Solution

$$c^2 = 8^2 + 15^2 = 289 = 17^2$$

$$c = 17 \text{ cm}$$

Final Answer

17 cm

MCQ 44

A right triangle has perpendicular sides 7 cm and 24 cm. Find the hypotenuse.

- A. 30 cm B. 20 cm
C. 35 cm D. 25 cm

Solution

$$c^2 = 7^2 + 24^2 = 625 = 25^2$$

$$c = 25 \text{ cm}$$

Final Answer

25 cm

MCQ 45

A right triangle has perpendicular sides 9 cm and 40 cm. Find the hypotenuse.

- A. 41 cm B. 46 cm
C. 36 cm D. 51 cm

Solution

$$c^2 = 9^2 + 40^2 = 1681 = 41^2$$

$$c = 41 \text{ cm}$$

Final Answer

41 cm

Quadrilaterals and Polygons**MCQ 46**

Find the sum of the interior angles of a 4-sided polygon.

- A. 180° B. 360°
C. 540° D. 720°

Solution

$$(n - 2)180^\circ = (4 - 2)180^\circ = 360^\circ$$

Final Answer

360°

MCQ 47

Find the sum of the interior angles of a 5-sided polygon.

- A. 360° B. 720°
C. 540° D. 900°

Solution

$$(n - 2)180^\circ = (5 - 2)180^\circ = 540^\circ$$

Final Answer

540°

MCQ 48

Find the sum of the interior angles of a 6-sided polygon.

- A. 540° B. 900°
C. 1080° D. 720°

Solution

$$(n - 2)180^\circ = (6 - 2)180^\circ = 720^\circ$$

Final Answer**720°****MCQ 49**

Find the sum of the interior angles of a 7-sided polygon.

- A. 900° B. 720°
C. 1080° D. 1260°

Solution

$$(n - 2)180^\circ = (7 - 2)180^\circ = 900^\circ$$

Final Answer**900°****MCQ 50**

Find the sum of the interior angles of a 8-sided polygon.

- A. 900° B. 1080°
C. 1260° D. 1440°

Solution

$$(n - 2)180^\circ = (8 - 2)180^\circ = 1080^\circ$$

Final Answer**1080°****MCQ 51**

Find the sum of the interior angles of a 9-sided polygon.

- A. 1080° B. 1440°
C. 1260° D. 1620°

Solution

$$(n - 2)180^\circ = (9 - 2)180^\circ = 1260^\circ$$

Final Answer**1260°****MCQ 52**

Find the sum of the interior angles of a 10-sided polygon.

- A. 1260° B. 1620°
C. 1800° D. 1440°

Solution

$$(n - 2)180^\circ = (10 - 2)180^\circ = 1440^\circ$$

Final Answer**1440°****MCQ 53**

Find the sum of the interior angles of a 11-sided polygon.

- A. 1620° B. 1440°
C. 1800° D. 1980°

Solution

$$(n - 2)180^\circ = (11 - 2)180^\circ = 1620^\circ$$

Final Answer**1620°****MCQ 54**

Find the sum of the interior angles of a 12-sided polygon.

- A. 1620° B. 1800°
C. 1980° D. 2160°

Solution

$$(n - 2)180^\circ = (12 - 2)180^\circ = 1800^\circ$$

Final Answer**1800°****MCQ 55**

Find the sum of the interior angles of a 13-sided polygon.

- A. 1800° B. 2160°
C. 1980° D. 2340°

Solution

$$(n - 2)180^\circ = (13 - 2)180^\circ = 1980^\circ$$

Final Answer**1980°**

MCQ 56

Find each interior angle of a regular 3-gon.

- A. 70° B. 50°
 C. 120° D. 60°

Solution

$$\text{Exterior} = \frac{360^\circ}{3} = 120^\circ$$

$$\text{Interior} = 180^\circ - 120^\circ = 60^\circ$$

Final Answer**60°****MCQ 57**

Find each exterior angle of a regular 4-gon.

- A. 90° B. 100°
 C. 80° D. 91°

Solution

$$\text{Exterior} = \frac{360^\circ}{4} = 90^\circ$$

Final Answer**90°****MCQ 58**

Find each interior angle of a regular 5-gon.

- A. 118° B. 108°
 C. 98° D. 72°

Solution

$$\text{Exterior} = \frac{360^\circ}{5} = 72^\circ$$

$$\text{Interior} = 180^\circ - 72^\circ = 108^\circ$$

Final Answer**108°****MCQ 59**

Find each exterior angle of a regular 6-gon.

- A. 70° B. 50°
 C. 60° D. 120°

Solution

$$\text{Exterior} = \frac{360^\circ}{6} = 60^\circ$$

Final Answer**60°****MCQ 60**

Find each exterior angle of a regular 8-gon.

- A. 55° B. 35°
 C. 135° D. 45°

Solution

$$\text{Exterior} = \frac{360^\circ}{8} = 45^\circ$$

Final Answer**45°****MCQ 61**

Find each interior angle of a regular 9-gon.

- A. 140° B. 150°
 C. 130° D. 40°

Solution

$$\text{Exterior} = \frac{360^\circ}{9} = 40^\circ$$

$$\text{Interior} = 180^\circ - 40^\circ = 140^\circ$$

Final Answer**140°****MCQ 62**

Find each exterior angle of a regular 10-gon.

- A. 46° B. 36°
 C. 26° D. 144°

Solution

$$\text{Exterior} = \frac{360^\circ}{10} = 36^\circ$$

Final Answer**36°****MCQ 63**

Find each exterior angle of a regular 12-gon.

- A. 40° B. 20°
 C. 30° D. 150°

Solution

$$\text{Exterior} = \frac{360^\circ}{12} = 30^\circ$$

Final Answer**30°**

MCQ 64

Find each interior angle of a regular 15-gon.

- A. 166° B. 146°
 C. 24° D. 156°

Solution

$$\text{Exterior} = \frac{360^\circ}{15} = 24^\circ$$

$$\text{Interior} = 180^\circ - 24^\circ = 156^\circ$$

Final Answer**156°****MCQ 65**

Find each exterior angle of a regular 18-gon.

- A. 20° B. 30°
 C. 10° D. 160°

Solution

$$\text{Exterior} = \frac{360^\circ}{18} = 20^\circ$$

Final Answer**20°****Circles and Chords****MCQ 66**

A circle has radius 3 cm. Find its diameter.

- A. 16 cm B. 6 cm
 C. 0 cm D. 12 cm

Solution

$$d = 2r = 2(3) = 6 \text{ cm}$$

Final Answer**6 cm****MCQ 67**

A circle has radius 5 cm. Find its diameter.

- A. 20 cm B. 0 cm
 C. 10 cm D. 11 cm

Solution

$$d = 2r = 2(5) = 10 \text{ cm}$$

Final Answer**10 cm****MCQ 68**

A circle has radius 7 cm. Find its diameter.

- A. 24 cm B. 4 cm
 C. 28 cm D. 14 cm

Solution

$$d = 2r = 2(7) = 14 \text{ cm}$$

Final Answer**14 cm****MCQ 69**

A circle has radius 9 cm. Find its diameter.

- A. 18 cm B. 28 cm
 C. 8 cm D. 36 cm

Solution

$$d = 2r = 2(9) = 18 \text{ cm}$$

Final Answer**18 cm****MCQ 70**

A circle has radius 12 cm. Find its diameter.

- A. 34 cm B. 24 cm
 C. 14 cm D. 48 cm

Solution

$$d = 2r = 2(12) = 24 \text{ cm}$$

Final Answer**24 cm****MCQ 71**

A circle has diameter 8 cm. Find its radius.

- A. 14 cm B. 0 cm
 C. 4 cm D. 8 cm

Solution

$$r = \frac{d}{2} = \frac{8}{2} = 4 \text{ cm}$$

Final Answer**4 cm****MCQ 72**

A circle has diameter 14 cm. Find its radius.

- A. 17 cm B. 0 cm
 C. 14 cm D. 7 cm

Solution

$$r = \frac{d}{2} = \frac{14}{2} = 7 \text{ cm}$$

Final Answer**7 cm**

MCQ 73

A circle has diameter 20 cm. Find its radius.

- A. 10 cm B. 20 cm
C. 0 cm D. 11 cm

Solution

$$r = \frac{d}{2} = \frac{20}{2} = 10 \text{ cm}$$

Final Answer

10 cm

MCQ 74

A circle has diameter 30 cm. Find its radius.

- A. 25 cm B. 15 cm
C. 5 cm D. 30 cm

Solution

$$r = \frac{d}{2} = \frac{30}{2} = 15 \text{ cm}$$

Final Answer

15 cm

MCQ 75

A circle has diameter 50 cm. Find its radius.

- A. 35 cm B. 15 cm
C. 25 cm D. 50 cm

Solution

$$r = \frac{d}{2} = \frac{50}{2} = 25 \text{ cm}$$

Final Answer

25 cm

MCQ 76

An angle at the circumference standing on an arc is 30° . Find the angle at the center on the same arc.

- A. 70° B. 50°
C. 120° D. 60°

Solution

$$\theta_c = 2\theta_s = 2(30) = 60^\circ$$

Final Answer 60° **MCQ 77**

An angle at the circumference standing on an arc is 40° . Find the angle at the center on the same arc.

- A. 80° B. 90°
C. 70° D. 160°

Solution

$$\theta_c = 2\theta_s = 2(40) = 80^\circ$$

Final Answer 80° **MCQ 78**

An angle at the circumference standing on an arc is 45° . Find the angle at the center on the same arc.

- A. 100° B. 90°
C. 80° D. 180°

Solution

$$\theta_c = 2\theta_s = 2(45) = 90^\circ$$

Final Answer 90° **MCQ 79**

An angle at the circumference standing on an arc is 55° . Find the angle at the center on the same arc.

- A. 120° B. 100°
C. 110° D. 220°

Solution

$$\theta_c = 2\theta_s = 2(55) = 110^\circ$$

Final Answer 110° **MCQ 80**

An angle at the circumference standing on an arc is 70° . Find the angle at the center on the same arc.

- A. 150° B. 130°
C. 280° D. 140°

Solution

$$\theta_c = 2\theta_s = 2(70) = 140^\circ$$

Final Answer 140°

MCQ 81

An angle at the center is 80° . Find the angle at the circumference on the same arc.

- A. 40° B. 50°
C. 30° D. 80°

Solution

$$\theta_s = \frac{\theta_c}{2} = \frac{80}{2} = 40^\circ$$

Final Answer**40°****MCQ 82**

An angle at the center is 100° . Find the angle at the circumference on the same arc.

- A. 60° B. 50°
C. 40° D. 100°

Solution

$$\theta_s = \frac{\theta_c}{2} = \frac{100}{2} = 50^\circ$$

Final Answer**50°****MCQ 83**

An angle at the center is 120° . Find the angle at the circumference on the same arc.

- A. 70° B. 50°
C. 60° D. 120°

Solution

$$\theta_s = \frac{\theta_c}{2} = \frac{120}{2} = 60^\circ$$

Final Answer**60°****MCQ 84**

An angle at the center is 140° . Find the angle at the circumference on the same arc.

- A. 80° B. 60°
C. 140° D. 70°

Solution

$$\theta_s = \frac{\theta_c}{2} = \frac{140}{2} = 70^\circ$$

Final Answer**70°****MCQ 85**

An angle at the center is 160° . Find the angle at the circumference on the same arc.

- A. 80° B. 90°
C. 70° D. 160°

Solution

$$\theta_s = \frac{\theta_c}{2} = \frac{160}{2} = 80^\circ$$

Final Answer**80°****Mixed High-Yield Geometry****MCQ 86**

How many degrees are in a right angle?

- A. 45 B. 90
C. 180 D. 360

SolutionRight angle = 90° **Final Answer****90°****MCQ 87**

How many degrees are in a full turn?

- A. 90 B. 180
C. 360 D. 270

SolutionFull turn = 360° **Final Answer****360°****MCQ 88**

How many sides does a hexagon have?

- A. 5 B. 7
C. 8 D. 6

Solution

Hexagon = 6 sides

Final Answer**6**

MCQ 89

How many diagonals does a quadrilateral have?

- A. 2 B. 1
C. 3 D. 4

Solution

$$\frac{n(n-3)}{2} = \frac{4(1)}{2} = 2$$

Final Answer

2

MCQ 90

How many diagonals does a pentagon have?

- A. 4 B. 5
C. 6 D. 10

Solution

$$\frac{5(5-3)}{2} = 5$$

Final Answer

5

MCQ 91

What is the angle in a semicircle?

- A. 45 B. 60
C. 90 D. 180

Solution

$$\angle \text{ in a semicircle} = 90^\circ$$

Final Answer

90°

MCQ 92

The tangent to a circle is perpendicular to the radius at the point of contact. What is the angle?

- A. 45 B. 60
C. 180 D. 90

Solution

$$\text{Radius} \perp \text{tangent} \Rightarrow 90^\circ$$

Final Answer

90°

MCQ 93

A square has how many lines of symmetry?

- A. 4 B. 2
C. 3 D. 8

Solution

Square has 4 symmetry axes

Final Answer

4

MCQ 94

An equilateral triangle has how many lines of symmetry?

- A. 1 B. 3
C. 2 D. 6

Solution

Equilateral triangle has 3

Final Answer

3

MCQ 95

Find the distance between (0, 0) and (3, 4).

- A. 4 B. 6
C. 5 D. 7

Solution

$$d = \sqrt{3^2 + 4^2} = \sqrt{25} = 5$$

Final Answer

5

MCQ 96

Find the midpoint of (2, 4) and (6, 8).

- A. (8, 12) B. (2, 2)
C. (3, 4) D. (4, 6)

Solution

$$M = \left(\frac{2+6}{2}, \frac{4+8}{2} \right) = (4, 6)$$

Final Answer

(4, 6)

MCQ 97

A triangle with all three equal sides is called what?

- A. Equilateral B. Isosceles
C. Scalene D. Right

Solution

$$a = b = c \Rightarrow \text{equilateral triangle}$$

Final Answer

Equilateral

MCQ 98

A quadrilateral with both pairs of opposite sides parallel is a?

- A. Kite B. Parallelogram
C. Trapezoid only D. Triangle

Solution

Two pairs of opposite parallel sides $\Rightarrow$ parallelogram

Final Answer

Parallelogram

MCQ 99

The sum of exterior angles of any convex polygon is?

- A. 180 B. 540
C. 360 D. 720

Solution

$$\sum \text{exterior angles} = 360^\circ$$

Final Answer

360°

MCQ 100

If two lines are perpendicular, the angle between them is?

- A. 0° B. 45°
C. 180° D. 90°

Solution

$$\text{Perpendicular lines} \Rightarrow 90^\circ$$

Final Answer

90°

RAPID REVISION GRID | GEOMETRY

Parallel lines Corresponding and alternate angles are equal; co-interior angles sum to 180° .

Triangle Exterior angle = sum of the two opposite interior angles.

Regular polygon

$$\text{Exterior angle} = 360^\circ/n$$

Right triangle

$$c = \sqrt{a^2 + b^2}$$

Circle Angle at the center is twice the angle at the circumference on the same arc.

Exam check Draw a tiny sketch and mark all known equal/supplementary angles before calculating.

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