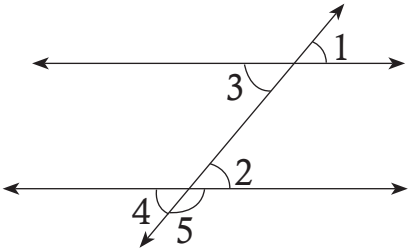
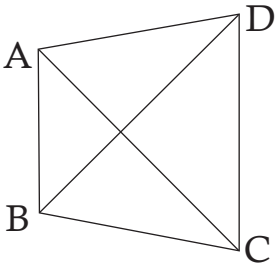
CITIUS

Lines and Angles; Triangles; Congruence of Triangles; Constructions; Symmetry, Reflection and Rotation; and Recognition of Solids

WORKSHEET 4

Question 1	In the figure, which angles form a pair of alternate interior angles? • ∠1, ∠2 • ∠2, ∠5 • ∠2, ∠3 • none of above 
Question 2	In quadrilateral ABCD, AD = BC and ∠DAB = ∠CBA. If ΔABD ≅ ΔBAC, what is the relation between ∠ABD and ∠BAC? • ∠ABD = ∠BAC • ∠ABD > ∠BAC • ∠ABD < ∠BAC • none of above 
Question 3	Which of the following letters of the English alphabet has line symmetry? • Q • W • P • Z

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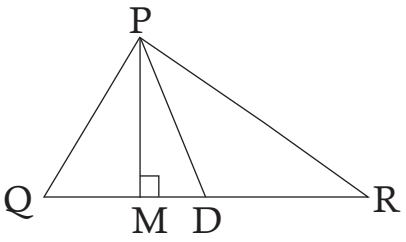
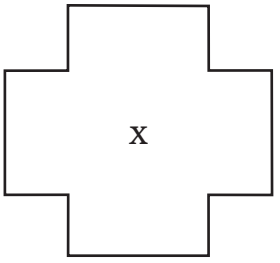
Question 4	In ΔPQR, what can be said about the line segment PM? • It is the bisector. • It is the median. • It is the diagonal. • It is the altitude. 
Question 5	What is the order of rotational symmetry of the object in the figure alongside, about the point marked as 'x'? • 0 • 2 • 1 • 3 
Question 6	An angle of a linear pair is half of a right angle. What are the measures of the two angles? • 90°, 45° • 45°, 135° • 90°, 90° • 60°, 120°
Question 7	In ΔPQR, length of the side QR is less than twice the length of the side PQ by 2 cm. Length of the side PR exceeds the length of the side PQ by 10 cm. The perimeter is 40 cm. The length of the smallest side of the ΔPQR is: • 6 cm • 8 cm • 7 cm • 10 cm

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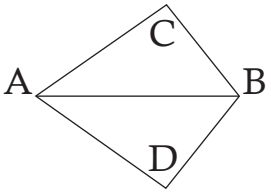
Question 8	If the exterior angle of a triangle is 108° and one of the interior opposite angle is 38°. The other interior opposite angle is • 138° • 60° • 70° • 72°
Question 9	In the quadrilateral ACBD, AC = AD and AB bisects ∠A. If ΔABC ≅ ΔABD, then what is the relation between BC and BD? • BC > BD • BC < BD • BC = BD • none of above 
Question 10	What is the number of lines of symmetry of the design in the figure? • 1 • 2 • 3 • 0

- x -

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Answers

Answer 1	$\angle 2, \angle 3$
Answer 2	$\angle ABD = \angle BAC$
Answer 3	W
Answer 4	It is the altitude.
Answer 5	2
Answer 6	45°, 135°
Answer 7	8 cm
Answer 8	70°
Answer 9	BC = BD
Answer 10	0

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