

INDIAN SCHOOL AL WADI AL KABIR

Class VI, Mathematics



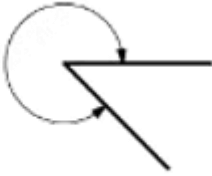

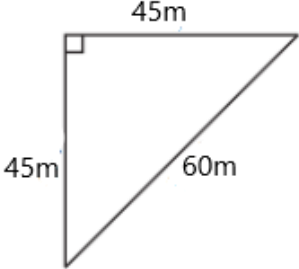
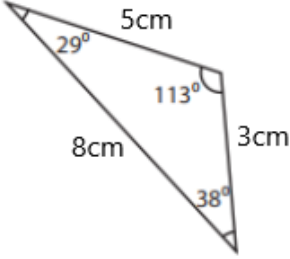
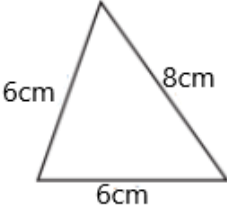
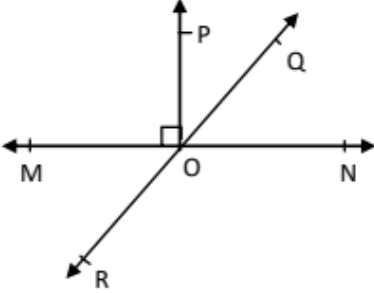
WORKSHEET (OTQ & DTQ)

UNDERSTANDING ELEMENTARY SHAPES

Multiple Choice Questions

Q1.	An angle measure of 180° is called:						
A	Acute angle	B	Complete angle	C	right angle	D	Straight angle
Q2.	The angle between the hour hand and minute hand of a clock at 4 o'clock is:						
A	120°	B	60°	C	90°	D	30°
Q3.	Where will the hands of the clock stop if it starts at 5 and make $\frac{1}{4}$ of revolution anticlockwise.						
A	At 6	B	At 2	C	At 11	D	At 8
Q4.	Rajni goes to market which is towards East from her house. If she has to return home, in which direction will she come?						
A	north	B	south	C	east	D	west
Q5.	A ship sailing in river Jhelam moves towards east. If it changes to north, through what angle does it turn?						
A	45°	B	180°	C	90°	D	60°
Q6.	Which of the following is a model for perpendicular lines?						
A	The parallel edges of a table top	B	The lines of a railway track	C	The line segments forming the letter 'L'.	D	The letter 'V'
Q7.	A _____ angle is larger than a straight angle.						
A	reflex	B	right	C	straight	D	complete
Q8.	An acute angle is formed between the hands of a clock at:						
A	9 o'clock	B	5 o'clock	C	11 o'clock	D	6 o'clock
Q9.	Name the type of the triangle: $\triangle LMN$ with $\angle L = 30^\circ$, $\angle M = 30^\circ$ and $\angle N = 80^\circ$.						
A	Acute angled triangle	B	Obtuse angled triangle	C	Right angled triangle	D	Straight angled triangle

Q10.	Pinky walks towards North from a certain point P, after walking some distance she takes left turn, walks a certain distance and again turns left. Now towards which direction does she look?						
A	east	B	west	C	north	D	south
Q11.	Source-based Question A tile is shown in the figure given here. Observe it carefully and answer the following questions.						
	<p>The diagram shows a parallelogram PQRS. Side QR is horizontal and labeled 8cm. Side RS is slanted and labeled 8cm. The interior angle at vertex Q is 100 degrees, and the interior angle at vertex R is 80 degrees. The interior angle at vertex P is 80 degrees, and the interior angle at vertex S is 100 degrees. Arrows on the horizontal sides PQ and SR indicate they are parallel. Arrows on the slanted sides QR and PS indicate they are parallel.</p>						
I.	Which of the following is true about the figure?						
A	It is a simple curve	B	It is a polygon	C	It is a closed curve	D	All the above
II.	What special name can be given to the figure?						
A	square	B	rectangle	C	rhombus	D	trapezium
III.	What type of angle is $\angle PQR$?						
A	acute	B	obtuse	C	reflex	D	straight
IV.	The length of side PS is						
A	4cm	B	16cm	C	8cm	D	10cm
SHORT ANSWER TYPE QUESTIONS- 5 QUESTIONS. (2 Marks each)							
Q12.	What part of a revolution have you turned through if you stand facing (i) North and turn clockwise to face east? (ii) South and turn anticlockwise to face west?						
Q13.	Which direction will you face if you start facing: (a) North and make $\frac{3}{4}$ of a revolution anti-clockwise? (b) East and make $1\frac{1}{2}$ of a revolution clockwise? (c) South and make one full revolution?						
Q14.	Name the type of triangles: (i) 6.5 cm, 8cm, 8.5 cm (ii) 9 cm, 9 cm, 9 cm (iii) 30° , 60° , 90° (iv) 99° , 50° , 31°						

Q15.	<p>State the type of each angle.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  (i) </div> <div style="text-align: center;">  (ii) </div> <div style="text-align: center;">  (iii) </div> <div style="text-align: center;">  (iv) </div> </div>
Q16.	<p>Find the number of right angles turned through by the hour hand of a clock when it goes from: (i) 9 to 3 (ii) 1 to 10</p>
<p>SHORT ANSWER TYPE QUESTIONS- 5 QUESTIONS. (3 Marks each)</p>	
Q17.	<p>Where will the hour hand of a clock stop if it starts from: (i) 6 and turns through one right angle? (ii) 8 and turns through 2 right angles? (iii) 10 and turns through 3 right angles? (iv) 7 and turns through 2 straight angles? (v) 11 and turns through 3 right angles? (vi) 3 and turns through 2 right angles?</p>
Q18.	<p>What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from: (i) 6 to 12 (ii) 5 to 8 (iii) 3 to 7</p>
Q19.	<p>How many right angles do you make if you start facing: (a) south and turn clockwise to west? (b) north and turn anti-clockwise to east? (c) west and turn to west?</p>
Q20.	<p>Classify the given triangles in both ways:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>
Q21.	<p>CASE STUDY: From the following figure:</p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>a) Name three acute angles b) Name two right angles c) Name three obtuse angles</p> </div> <div style="flex: 1; text-align: center;">  </div> </div>

ANSWERS

1.	D) Straight angle	2.	A) 120°	3.	B) At 2	4.	D) west
5.	C) 90°	6.	C) The line segments forming the letter 'L'.	7.	A) reflex	8.	C) 11 o'clock
9.	A) Acute angled triangle	10.	south	11.	I. D) All the above	11	II) C) rhombus
11.	III) B) obtuse	11.	IV) C) 8cm	12.	i) $\frac{1}{4}$ ii) $\frac{3}{4}$	13.	a) East b) West c) South
14.	i) scalene ii) equilateral iii) right angled iv) obtuse angled	15.	i) acute ii) obtuse iii) reflex iv) right	16.	i) 2 ii) 3	17.	At 9, at 2, at 7, at 7, at 8, at 9
18	$\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$	19	1, 3, 4	20	Right angled & isosceles; obtuse angled & scalene; acute angled & isosceles	21	a) $\angle POQ,$ $\angle QON,$ $\angle MOR$ b) $\angle POM,$ $\angle PON$ c) $\angle MOQ,$ $\angle POR$
