

ITL PUBLIC SCHOOL MATHEMATICS

TOPIC: SHAPES AND PATTERNS CLASS: V Sec:__

		SECTION – A		
1	Multiple choice questions:			
	1. How many faces does an icosahed a) 10 b) 12	dron have? c) 20	d) 30	
	2. A shape with all sides equal but aa) Squareb) Rectangle	ngles not equal to 90° c) Rhombus	is called? d) Pentagon	
	3. An equilateral triangle has how many and all blocks are blocks.	nany equal sides? c) 3	d) 4	
	4. Opposite sides of a parallelograma) Unequalb) Equal	are: c) Curved	d) Perpendicular	
	5. A hexagon has how many sides? a) 5 b) 6	c) 7	d) 8	
	6. A quadrilateral has how many sid a) 3 b) 4	es? c) 5	d) 6	
	7. A circle has how many corners? a) 1 b) 2	c) 0	d) 4	
	8. Which shape has all angles 90°? a) Rhombus b) Square	c) Pentagon	d) Hexagon	
	9. A pentagon has how many angles a) 4 b) 5	c) 6	d) 7	
	10. A trapezium has how many pairs a) None b) One	s of parallel sides? c) Two	d) Three	
2	Fill in the blanks:			
	1. An icosahedron has faces			
	2. A shape with all sides equal but a	ngles unequal is called	d a	
	3. A hexagon has sides.			
	4. Opposite sides of a parallelogram	are		
	5. A triangle has sides.			
	6. A square has equal sides.			
	7. A circle has corners.			

	8. A pentagon has angles.		
	9. A quadrilateral has sides.		
	10. A rhombus has equal sides.		
3	Draw a pentagon, parallelogram. Write two properties of each shape.		
4	Classroom Wall Decoration A teacher wants to decorate a classroom wall using different shapes. She chooses squares, rectangles, circles, pentagons, and hexagons. She arranges tiles so that all shapes fit without leaving gaps.		
	 1. Which shape from her selection has no sides and no corners? a) Pentagon b) Hexagon c) Circle d) Square 		
	 2. Which shape has all 4 sides equal and all angles 90°? a) Square b) Rhombus c) Rectangle d) Parallelogram 		
	 3. How many sides does a pentagon have? a) 4 b) 5 c) 6 d) 8 		
	 4. Hexagons can form tessellations because they have: a) 5 equal sides b) 6 equal sides c) No sides d) Only 2 parallel sides 		
	5. Why do squares and hexagons fit well in tiling?		
5	Playground Design		
	A playground designer uses shapes to create safe play areas. The sandpit is octagon-shaped , the merry-go-round platform is circular ,and the hopscotch board is made of rectangles and squares .		
	1. How many sides does an octagon have?		
	2. Which shape in the playground has 360° around and no corners ?		
	 3. A square and rectangle are both: a) Triangles b) Quadrilaterals c) Pentagons d) Octagons 		
	u) Octagons		

	4. Which shape is best for a merry-go-round to rotate smoothly?	
	5. Give one reason why an octagon may be used for the sandpit.	
6	a) Draw and label a triangle and write its properties.	
	b) State any two differences between a square and a rectangle.	
7	Name these:	
	a) A shape that has 3 sides and 3 angles →	
	b) A shape that has 4 equal sides and all right angles →	
	c) A shape with one pair of parallel sides →	
	d) A shape with no sides and no corners →	
	e) A shape that has 6 sides and 6 angles →	
	f) A 3D shape that has 20 triangular faces →	
8	Riya is designing a birthday card. She uses these shapes:	
	A big octagon in the centre for decoration	
	• Two kites on the top	
	• Four circles in the corners	
	A trapezium at the bottom for writing the name	
	Answer the following:	
	a) How many sides does the main centre shape have?	
	b) Which shape has two pairs of equal adjacent sides?	
	c) Which shape has one pair of parallel sides?	