

INDIAN SCHOOL AL WADI AL KABIR

Class VII, Mathematics *Worksheet-LINES AND ANGLES* 18-10-20

OBJECTIVE TYPE (1 Mark)										
Q.1.	Angles which are both supplementary and vertically opposite are									
	A	95°,85°	В	100°,60°	C	90°,90°	D	45°,45°		
Q.2.	The angles x and (90° – x) are									
	A	supplementary	В	complementary	С	vertically opposite	D	making a linear pair		
Q.3.	The	The difference of two complementary angles is 30°. Then, the angles are								
	A	60°, 30°	В	70°, 40°	С	20°,50°	D	105°,75°		
Q.4.	The sum of two vertically opposite angles is 166°. Find each of the angles.									
	A	14°	В	7°	С	30°	D	83°		
Q.5.	In the given figure, the value of x is				100° × 64°					
	A	210°	В	150°	С	46°	D	80°		
Q.6.	In the given figure, which one of the following is not true?									
	A	∠1+∠5=180°	В	∠2 + ∠5=180°	С	∠3 + ∠8=180°	D	∠2 + ∠3=180°		
Q.7.	In which of the following figures, a and b are forming a pair of adjacent angles?									
	A	boo	В		С	b	D			

Q.8.	The angle which makes a linear pair with an angle of 61° is of								
-	Α	61°	В	119°	С	122°	D	29°	
Q.9.	For the figure, statements p and q are given below: p: a and b are forming a linear pair. q: a and b are forming a pair of adjacent angles. Then,			C A C B					
	A	both p and q are true	В	p is true and q is false	С	p is false and q is true	D	both p and q are false	
Q.10.	In the given figure, a and b are			b m					
	A	alternate exterior angles	В	corresponding angles	С	alternate interior angles	D	vertically opposite angles	
Fill in the blanks(1mark)									
Q.11.	A line which intersects two or more given lines at different points is called								
Q.12.	If one angle of a linear pair is an acute angle, then the other angle is of kind								
Q.13.	The supplement of 139° is								
Q.14.	The angle equal to its complement is								
Q.15.	The number of angles that two line segment when meet at a point can make is								
				SECTION B (2 n	narks)				
Q.16.	In the given figure, CD intersects the line AB at F, \angle CFB = 50° and \angle EFA = \angle AFD. Find the measure of \angle EFC.				A 50° B				
Q.17.	In the given figure, find ∠EOF and ∠COD.				$B \leftarrow \begin{array}{c} A_{1} & F \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ &$				

Q.18.	Find the two angles if the given two supplementary angles are in the ratio 2:3.						
Q.19.	In the given figure, if AB CD, \angle APQ = 50° and \angle PRD = 130°, then find (i) \angle PQR (ii) \angle PRQ	A P B S S S S S S S S S S S S S S S S S S					
Q.20.	In the given figure, find ∠AOC, ∠COD and ∠BOD.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$					
	SECTION (C (4 marks)					
Q.21.	In the adjoining figure, find the unknown angles if a is parallel to b.	$ \begin{array}{c} & & & & \\ & & & &$					
Q.22.	In the given figure, OR ⊥ OP. (i)Name all the pairs of adjacent angles. (ii) Name all the pairs of complementary angles	S P O					
Q.23.	In the given adjoining figure, three lines AB, CD and EF intersect each other at O. If ∠AOE = 40° and ∠DOB = 35°, find (i)∠COF (ii) ∠COA (iii) ∠BOF and (iv) ∠EOD	C F B B A 40° D D					

Q.24.	In the given adjoining figures, examine whether the following pairs of lines are parallel or not: (i)EF and GH (ii) AB and CD (iii)line ℓ and line m	E G G G B TOO D TO TH	125° m
Q.25.	In the adjoining figures, if the given two lines are parallel then find the unknown angles a, b and c.	/120° a / c	b 50°

Answers								
	1	С	2	В	3	A	4	D
	5	В	6	A and D	7	D	8	В
	9	A	10	С	11	Transversal	12	Obtuse
	13	41	14	45°,45°	15	4	16	80°
ers	17	∠EOF=40° ∠COD=90°	18	72°, 108°	19	∠PQR = 50° ∠PRQ = 50°	20	89°,56°, 35°
Answers	21	1) $\angle 3 = \angle 5 = \angle 7 = 75^{\circ}$ $\angle 2 = \angle 4 = \angle 6 = \angle 8 = 105^{\circ}$ 2) $x = 110^{\circ} = y$ $s = 70^{\circ}$ $t = 120^{\circ} = r$	22	Adjacent angles (i)∠SOR and ∠ROQ (ii)∠SOQ and ∠QOP (iii)∠SOR and ∠ROP (iv)∠QOP and ∠ROQ Complementary angles (i)∠QOP and ∠ROQ	23	(i)∠COF=105° (ii)∠COA=35° (iii)∠BOF=40° (iv)∠EOD=105°	24	AB∥CD EF∦GH m ∦ℓ
	25	(i)60°,60°,120°	25	(ii)50°, 50°,50°				