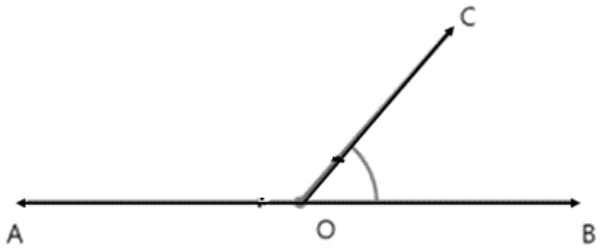
INDIAN SCHOOL AL WADI AL KABIR

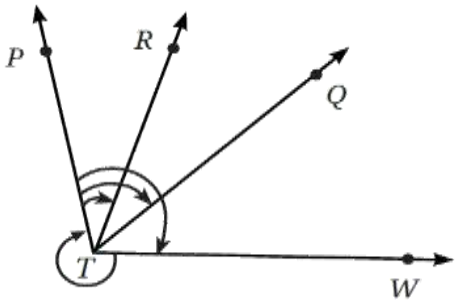
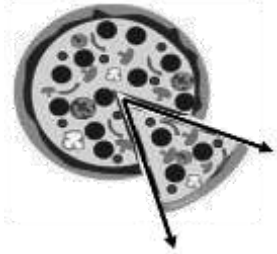
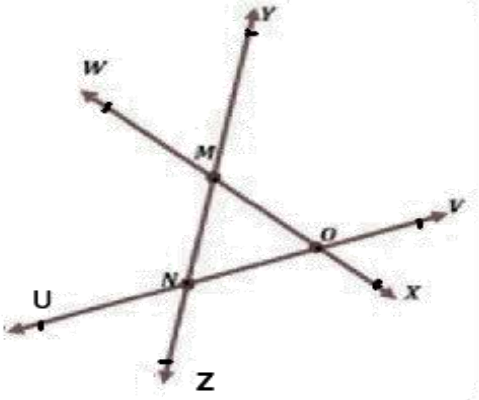
Class VI

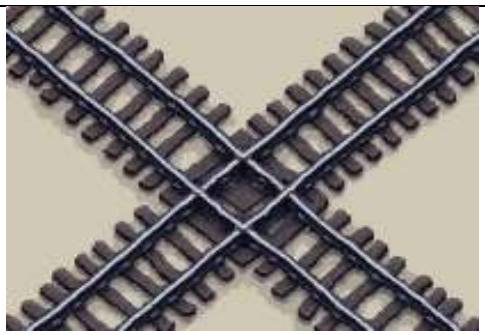
Mathematics (2026-27)

Worksheet DTQ –LINES AND ANGLES

DESCRIPTIVE TYPE QUESTIONS

Q1.	Define the following terms with a suitable example or diagram: a) Line segment b) Ray
Q2.	Differentiate between a line and a line segment. Write any two differences.
Q3.	Draw and label the following: a) An acute angle b) An obtuse angle
Q4.	Observe the figure and answer the following questions: a) Name the angle Shown in the figure. b)$\angle BOC = 50^0$, find $\angle AOC$ c) Classify $\angle AOC$ 
Q5.	What are perpendicular lines? Draw a pair of perpendicular lines and mark the right angle.
Q6.	Classify the following angles according to their measures: $a)\ 35^0,\quad b)90^0\quad c)125^0\quad d)180^0$
Q7.	Observe the clock and answer the following questions: a) What is the smaller angle between the hands? b) Classify the angle. c) What will be the angle between the hands at 4 o'clock? Classify it. 
Q8.	Draw a pair of intersecting lines AB and CD meeting at point O. a) Name the point of intersection. b) How many angles are formed? c) Name any two of the angles formed.

Q9.	A clock shows the following times. Identify the smaller angle formed by the hands and classify it. a) 5 o'clock b) 6 o'clock c) 2 o'clock
Q10.	Use a protractor to find the degree measures of ∠PTR, ∠PTQ, ∠RTQ, ∠QTW and ∠PTW. Then classify each angle as acute, obtuse, right, or reflex. 
Q11.	Identify the angles marked on the figures given below and classify them:  a)  b)  c)  d)
Q12.	Riya draws an angle of 70^0 using a protractor. Her friend draws an angle of 110^0. a) Classify Riya's angle. b) Classify her friend's angle. c) Which angle is greater, and by how many degrees?
Q13.	Observe the adjoing figure and answer the following questions: a) Write four points on the line XW b) Name any three rays. c) Name one pair of intersecting lines. d) Name any four angles (use three letters) 

Q14.	Identify each of the following as a point, a line segment, a ray, intersecting lines, or parallel lines in the following: a. The sharpened end of a needle b. Light from a bulb c. The English alphabet X d. Strings in a violin e. edge of a Ruler
Q15.	**Case Study: Lines and Angles** Meera was looking at a railway crossing near her town. Two straight railway tracks intersect at a point, forming four angles. The tracks cross each other at a right angle.  Answer the following questions: a) What type of lines are formed when the two tracks intersect at a right angle? b) What is the measure of each angle formed at the intersection? c) How many right angles are formed at the intersection? d) What is the sum of the four angles formed at the intersection?

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ANSWERS

Q1.		Q2.		Q3.		Q4.	a) $\angle COB$ b) $\angle AOC = 50^0$ c) Obtuse angle
Q5.		Q6.	a) Acute b) Right c) Obtuse d) Straight	Q7.	a) 90^0 b) Right c) 120^0	Q8.	
Q9.	a)150^0 b) 180^0 c) 60^0	Q10.		Q11.	a) Acute b) obtuse c)Obtuse, Right d) Acute	Q12.	a) Acute b) Obtuse c) Friend, 40^0
Q13.		Q14.		Q15.	a) Perpendicular lines, b)90 c)4 ,360^0		