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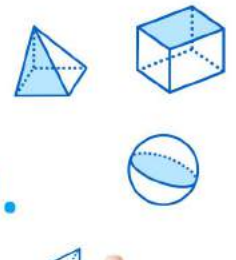

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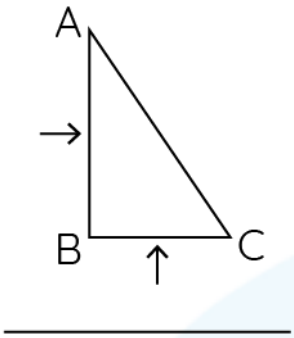
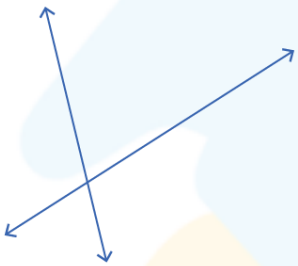
PARALLEL AND PERPENDICULAR LINES WORKSHEET-II

1) What is the relation between the line segments indicated by the arrows in the following shape:



_____

2) Write each pair of lines as parallel, perpendicular or none.

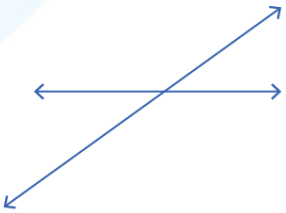


(A)

_____

(B)

_____



(C)

_____

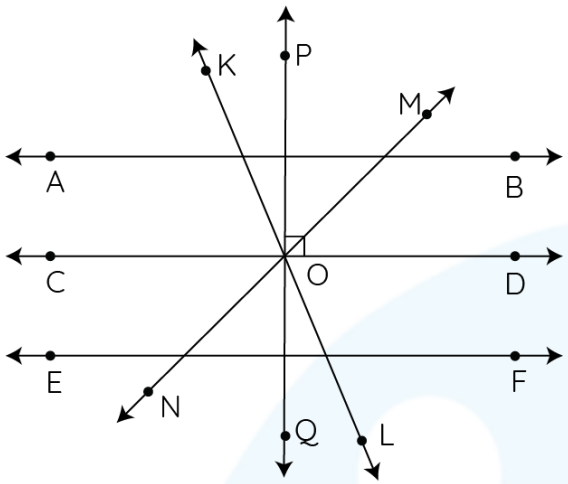
3) Fill in the blanks:
The angle measurement between the two perpendicular lines is _____.

4) From the given slopes of lines, identify if the lines are parallel or perpendicular.

	Slope of line 1	Slope of line 2	Answer
1.	$\frac{4}{5}$	$-\frac{5}{4}$	
2.	1	1	

5) State whether true or false:
Two lines parallel to the same line are parallel to each other.

Answer Q.4, Q.5 and Q.6 using the following figure:

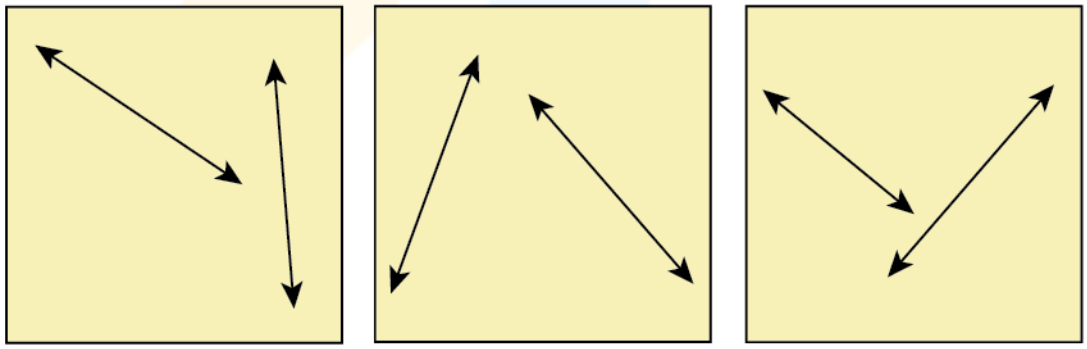


6) Name the lines perpendicular to line AB.

7) True or false: Line MN is perpendicular to line AB.

8) How many lines are parallel to line EF?

9) Identify which of the lines is/are perpendicular?



(A) (B) (C)

a) (A)
b) (B) and (C)
c) (A) and (B)
d) (C)

10) Write the equation of the line passing through the point (0, 1) and perpendicular to the line having equation $y = \frac{1}{2}x + 4$.

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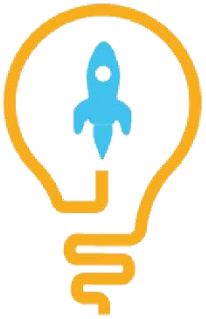

ANSWERS

1)	perpendicular
2)	1) None 2) Parallel 3) None
3)	90^0
4)	1. Lines are perpendicular. 2. Lines are parallel.
5)	True
6)	Line PQ
7)	False
8)	2
9)	d)
10)	$y = -2x + 1$

FUN FACT

1. Parallel lines do meet at some point. They meet at infinity.

2. Parallel lines cut by a transversal create 8 angles that have relationships. If you know the measurement of 1 of the angles and the relationship between angles, you can find the remaining 7 angles.

3. The slopes of parallel lines are always equal.