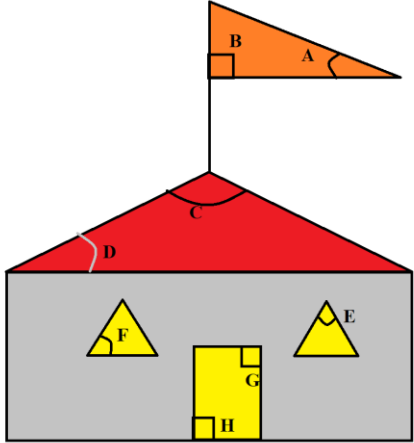# Mathematics: Chapter 3-Angles and turns

| Q1.	**True or False**
	1. A door knob works without turning. (_____)
	2. A screwdriver is used by turning it round and round. (_____)
	3. A gas stove knob can only be pushed, not turned. (_____)
	4. The fan regulator involves turning to change speed. (_____)
	5. A key opens a lock by turning inside it. (_____)

Q2.	**Fill in the blanks**
	1. We turn the _____ to open or close the flow of water.
	2. To unlock a door, we turn the _____.
	3. A car changes direction when we turn the _____.
	4. To open a cold drink bottle, we turn the _____.
	5. The hands of a _____ keep turning all the time.

Q3.	
	Look at the picture and identify the different angles as acute, obtuse and right angles.

Q4.	Draw the angles formed by the following turns in your notebook.
	$\frac{1}{2}$ turn, $\frac{1}{4}$ turn, $\frac{2}{4}$ turn, $\frac{1}{6}$ turn, $\frac{4}{6}$ turn, $\frac{3}{12}$ turn, $\frac{1}{2} + \frac{1}{4}$ turn, and $\frac{1}{8} + \frac{1}{6}$ turn.

| Q5.	Guess the measure of turns the minute hand of a clock makes in each of the following cases. The initial position of the minute hand is given. Draw the final position of the minute hand on the clock face.
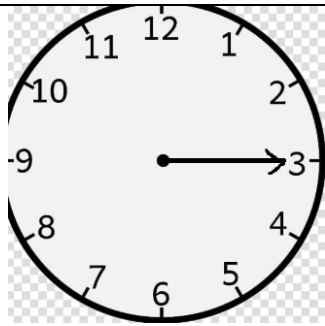
a) When the minute hand moves by 15 minutes, it has made a _____ turn of the circle.
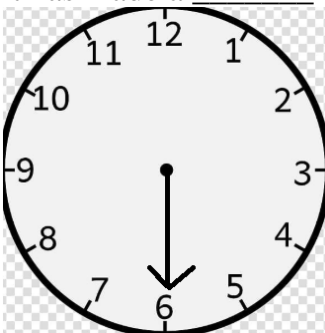
b) When the minute hand moves by 30 minutes, it has made a _____ turn of the circle.
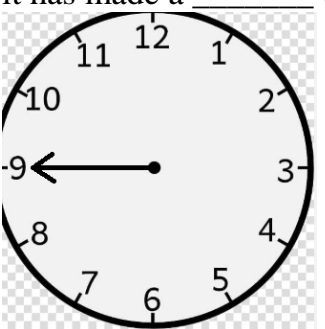
c) When the minute hand moves by 45 minutes, it has made a _____ turn of the circle.
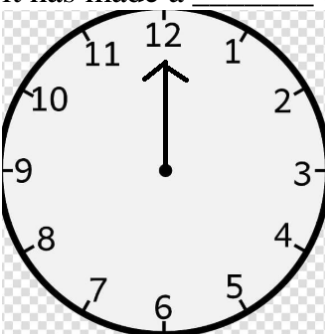
d) When the minute hand has turned a full-circle, it has moved by _____ minutes.

Q6.	Complete the table		
	Starting direction	Turns	Ending direction
	North	3 right turns ,clockwise	
	East	2 right angles, anticlockwise	
	West	1 right angle, clockwise, ½ right angle anti-clockwise, ½ right angle clockwise	
	South	3 right angle clockwise, 2 right angle anti-clockwise	

Q7.

Look at the picture carefully. Padma is standing in the middle of the market. Answer the following questions:

1. Padma is facing the **toy shop**. What place will she face if she takes a **half turn clockwise**?
2. If Padma is facing the **bookstore**, what place will she face if she takes a **right turn, clockwise**?
3. If Padma is facing the **ice-cream cart**, what place will she face if she takes a **half turn anti-clockwise**?
4. If Padma is facing the **parking area**, what place will she face if she takes a **left turn**?