

CHAPTER – 5

Understanding Elementary Shapes

EXERCISE – 5.3

Q. 1

Match the following:

Column A	Column B
(i) Straight angle	(a) Less than one-fourth Of a revolution
(ii) Right angle	(b) More than half a Revolution
(iii) Acute angle	(c) Half of a revolution
(iv) Obtuse angle	(d) One-fourth of a Revolution
(v) Reflex angle	(e) Between $\frac{1}{4}$ and $\frac{1}{2}$ of a Revolution
	(f) One complete Revolution

Answer:

Column A	Column B
(i) Straight angle	(c) Half of a revolution
(ii) Right angle	(d) One-fourth of a revolution
(iii) Acute angle	(a) Less than one-fourth of a revolution
(iv) Obtuse angle	(e) Between $\frac{1}{4}$ and $\frac{1}{2}$ of a revolution
(v) Reflex angle	(b) More than half a revolution

(i) Straight angle – It is formed when legs are pointing in opposite direction and they form a straight line through the vertex of the angle. Thus measure of a straight line is always 180° .

Let's discuss revolution a revolution is a complete turn or a full rotation so it points back the same way and form an

angle of 360° . And a straight angle is the half of the revolution that is 180° .

(ii) Right angle is of 90° and 90° is the of the 360°

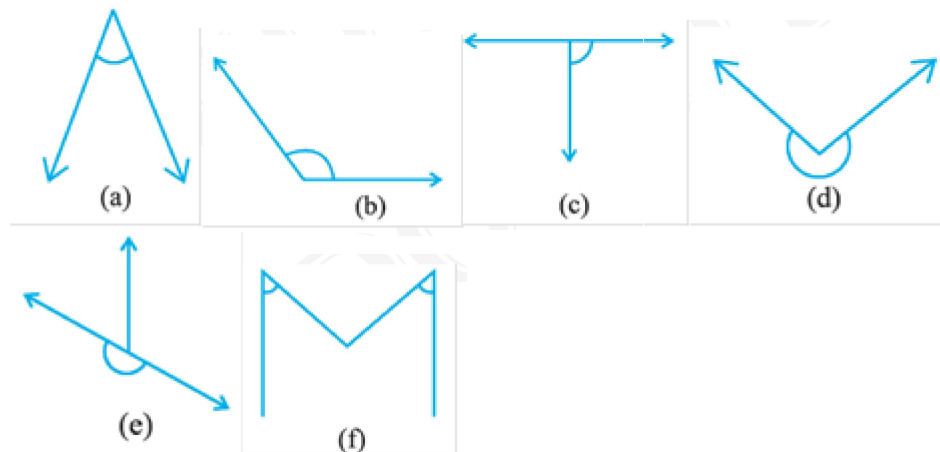
(iii) Acute angle is less than 90° so it will be less than one-fourth of a revolution as 90° is the one-fourth.

(iv) Obtuse angle is the angle greater than 90° but less than 180° so it will be in between one-fourth and half of the revolution.

(v) Reflex angle whose measure is greater than 180° but less than 360° so it is more than half a revolution.

Q. 2

Classify each one of the following angles as right, straight, acute, obtuse or reflex:



Answer:

(a) It is an acute angle as its measure is less than 90°

(b) It is an obtuse angle because its measure is more than 90° but less than 180°

(c) Right angle as its measure is 90°

(d) Reflex angle as its measure is more than 180° but less 360°

(e) Straight angle as its measure is 180°

(f) Acute angle as its measure is less than 90° .