

INTERNATIONAL INDIAN SCHOOL BURAI DAH
Worksheet for the Academic Year 2023-24
CLASS : 6 SUBJECT : MATHEMATICS
LESSON – 5 : Understanding Elementary Shapes

1. Name the following :

- a) A parallelogram in which all sides are equal
- b) A triangle with three unequal sides
- c) A regular polygon with least number of sides
- d) A triangle having two equal sides.
- e) A polygon with 8 sides
- f) A quadrilateral in which two pairs of adjacent sides are equal.
- g) A quadrilateral having only one pair of parallel sides

2. Fill in the blank:

- a. An angle whose measure is greater than 0° and less than 90° is called _____ angle.
- b. Angle between 90° and 180° is called an _____ angle.
- c. A triangle whose angles measure 54° , 40° and 86° is an _____ triangle.
- d. A triangle having 3 unequal sides is called a _____.
- e. A shape with 5 sides is called _____ and a shape with 7 sides is called _____.

3. How many right angles make:

- a. a straight angle? (b) a complete angle?

4. Classify the angles as obtuse, acute, right or reflex.

- a) 90° b) 30° c) 100° d) 135° e) 210° f) 350°

5. How many right angles do you make if you start facing:

- a. South and turn anti-clockwise to east?
- b. East and turn clockwise to east?
- c. West and turn clockwise to south?

6. Which direction will you face if you start facing:

- a. North and make $\frac{3}{4}$ of a revolution anti-clockwise?
- b. west and make $1\frac{1}{2}$ revolution clockwise?

7. Where will the hand of a clock stop if it starts from:

- a) 6 and turns through one right angle?
- b) 8 and turns through 2 right angles?
- c) 10 and turns through 3 right angles?
- d) 7 and turns through 2 straight angles?

8. Name the type of the triangle in two different ways.

- a) $\triangle ABC$ with $AB = 8.7$ cm, $AC = 7$ cm, $BC = 6$ cm, $\angle A = 130^\circ$
- b) $\triangle LMN$ with $\angle L = 30^\circ$, $\angle M = 70^\circ$, $\angle N = 80^\circ$, $LM = MN = LN = 5.2$ cm
- c) $\triangle XYZ$ with $\angle Y = 90^\circ$ and $XY = YZ$.

ANSWERS

- 1) a) Rhombus b) Scalene triangle c) Equilateral triangle d) Isosceles triangle e) Octagon
f) Square g) Trapezium
- 2) a) acute b) obtuse c) acute angled d) scalene triangle e) pentagon, heptagon
- 3) a) 2 b) 4
- 4) a) right b) acute c) obtuse d) obtuse e) reflex f) reflex
- 5) a) 3 b) 4 c) 1
- 6) a) west b) east
- 7) a) 9 b) 2 c) 7 d) 7
- 8) a) scalene and obtuse angled b) Equilateral and acute angled
c) isosceles and right angled