REVISION QUESTIONS CHAPTER 11: CLASS VI

1. If there are 20 mangoes in a box, how will you write the total number of mangoes in terms of the number of boxes? (Use b for the number of boxes.)
2. The teacher distributes 4 pencils per student. Can you tell how many pencils are needed, given the number of students? (Use s for the number of students.)
3. A bird flies 5 kilometer in one minute. Can you express the distance covered by the bird in terms of its flying time in minutes? (Use t for flying time in minutes.)
4. The side of an equilateral triangle is denoted by l. Express the perimeter of the equilateral triangle using l.
5. The side of a regular hexagon is denoted by l. Express the perimeter of the hexagon using l.
6. A cube is a three-dimensional figure. It has six faces and all of them are identical squares. The length of an edge of the cube is given by l. Find the formula for the total length of the edges of a cube.
7. Give expressions in the following cases.
   (a) 5 times y to which 3 is added
   (b) 5 times y from which 3 is subtracted
   (c) y is multiplied by – 8 and then 5 is added to the result
   (d) y is multiplied by 5 and the result is subtracted from 16
   (e) y is multiplied by – 5 and the result is added to 16.
8. Express the following situations in statements using expressions:
   ➢ Sarita has 10 more marbles than Ameena.
   ➢ Raju's father's age is 2 years more than 3 times Raju's age.
   ➢ Price of wheat per kg is Rs 5 less than price of rice per kg.
   ➢ Price of oil per litre is 5 times the price of rice per kg.
   ➢ The speed of a bus is 10 km/hour more than the speed of a truck going on the same road.
9. Complete the entries in the third column of the table.

Equation	Value of the variable	Solution (Yes/No)
x + 10 = 30	x = 10	
x + 10 = 30	x = 30	
x + 10 = 30	x = 20	

10. The length of a rectangular hall is 4 meters less than 3 times the breadth of the hall. What is the length, if the breadth is b meters?

REVISION QUESTIONS CHAPTER 04/05: CLASS VI

1. Find the number of right angles turned through by the hour hand of a clock when it goes from
   (a) 3 to 6 (b) 2 to 8 (c) 5 to 11 (d) 10 to 1 (e) 12 to 9 (f) 12 to 6
2. How many right angles do you make if you start facing
   (a) south and turn clockwise to west?
   (b) north and turn anti-clockwise to east?
   (c) west and turn to west?   (d) south and turn to north?
3. Name the types of following triangles :
   (a) Triangle with lengths of sides 7 cm, 8 cm and 9 cm.
   (b) $\triangle ABC$ with AB = 8.7 cm, AC = 7 cm and BC = 6 cm.
   (c) $\triangle PQR$ such that PQ = QR = PR = 5 cm.
   (d) $\triangle DEF$ with m $\angle D$ = 90°
   (e) $\triangle XYZ$ with m $\angle Y$ = 90° and XY = YZ.
   (f) $\triangle LMN$ with m $\angle L$ = 30°, m $\angle M$= 70° and m $\angle N$= 80°.
4. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.
5. Fill in the blanks:
   ➢ A cuboid has Faces : _____ Edges : _____ Corners : _____
   ➢ A cube has Faces : _____ Edges : _____ Corners : _____.
   ➢ A square pyramid has Faces : _____ Edges : _____ Corners : _____
   ➢ A triangular prism has Faces : _____ Edges : _____Corners : _____
   ➢ A triangular pyramid has Faces : _____ Edges : _____Corners : _____
6. (a) Identify three triangles in the figure.
   (b) Write the names of seven angles.
   (c) Write the names of six line segments.
   (d) Which two triangles have $\angle B$ as common?

7. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
8. Draw a rough sketch of a quadrilateral KLMN. State,
   (a) two pairs of opposite sides,   (b) two pairs of opposite angles,
   (c) two pairs of adjacent sides,   (d) two pairs of adjacent angles.
9. Draw any circle and mark
   (a) its centre (b) a radius (c) a diameter (d) a sector (e) a segment
   (f) a point in its interior (g) a point in its exterior (h) an arc
10. Draw a rough sketch of a triangle ABC. Mark a point P in its interior and a point Q in its exterior. Is the point A in its exterior or in its interior?