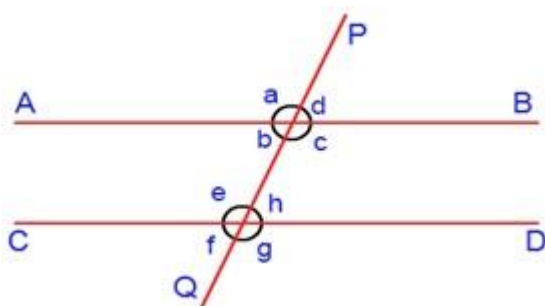**Q.1 (A) Choose the correct alternative answers for each of the following questions:**   **4**

(1) Assume that p/q is a rational number, to obtain a rational number with same value we must
  (a) Multiply both p and q by same integer
  (b) Divide both p and q by same integer
  (c) Multiply both p and q by 1
  (d) Both (a) and (b)

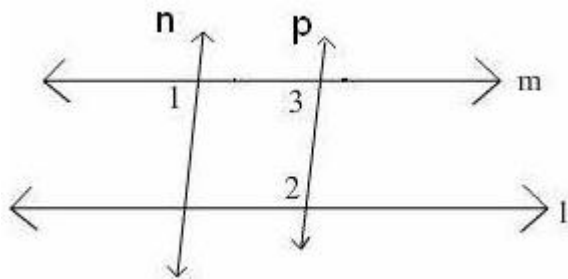**(2)** In figure, choose pair of alternate interior angles are

  (a) ∠a, ∠b   (b) ∠c, ∠f   (c) ∠h, ∠b   (d) ∠f, ∠d

(3) For what value of 'a' do $\dfrac{-1}{-4}$ and $\dfrac{a}{8}$ are equivalent?

  (a) a = 1   (b) a = 2   © a = 4   (d) a = -2

(4) In the figure, l ∥ m , p ∥ n . Given $\angle 1 = 75^0$, then $\angle 2 =$

  (a) 105^0 (b) 75^0 (c) 60^0 (d) 100^0

(B) Solve the following sub questions: **4**

(1) Draw a line l. Take a point A outside the line. Through point A draw a line parallel to line l.

(2) Compare the following numbers:

$$\frac{-5}{4}, \frac{1}{4}$$

(3) Draw a line m. Draw a line n which is parallel to line m at a distance of 4 cm from it.

(4) Compare the following numbers:

$$-\frac{17}{20}, \frac{-13}{20}$$

Q.2   Solve the following sub questions: **8**

(1) Show the following numbers on a number line.

$$\frac{3}{2}, \frac{5}{2}, -\frac{3}{2}$$

(2) Compare the following numbers:

$$\frac{-7}{11}, \frac{-3}{4}$$

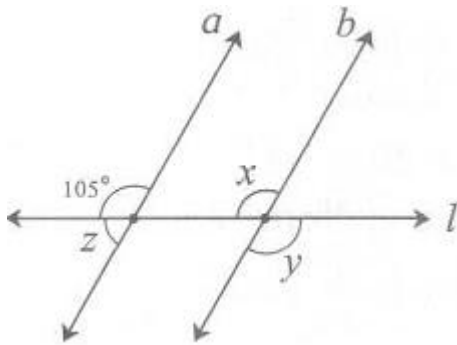**(3)** Compare the following numbers:

$$\frac{15}{12}, \frac{7}{16}$$

(4) Write the following rational numbers in decimal form:

$$\frac{9}{37}$$

Q.3   **Solve the following sub questions:**   **6**

(1) In the below figure, line a || line b. line l is a transversal. Find the measures of ∠x, ∠y, ∠z using the given information.

(2) $\frac{3}{5}$ and $\frac{6}{10}$ are rational numbers. Compare them.
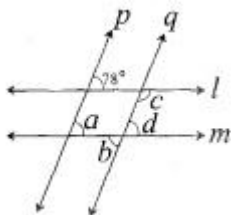
Q.4   **Solve the following sub questions:**   **8**

(1) Convert the following rational numbers into decimal form:

(1) $\frac{5}{16}$ (2) $\frac{7}{9}$

(2) In the figure, line l || line m and line p || line q. Find the measures of ∠a, ∠b, ∠c and ∠d.

-------- All the Best --------