

Example 17: Solve $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$

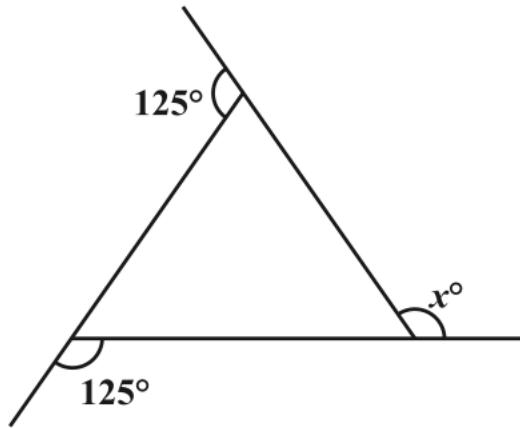
Solve the following linear equation

1.
$$\frac{x}{2} - \frac{1}{5} = \frac{x}{3} + \frac{1}{4}$$

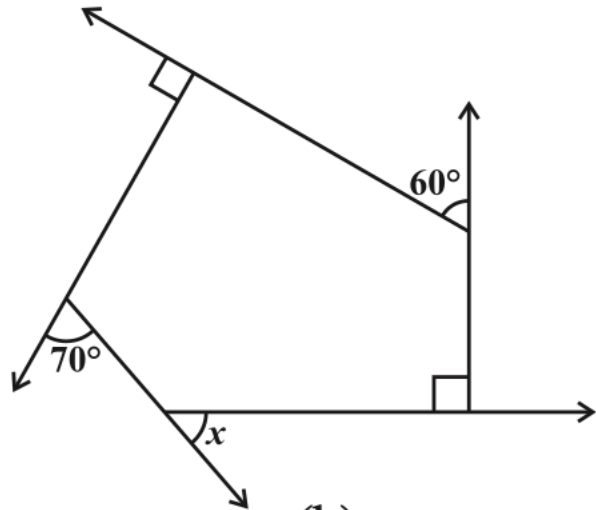
Example 4: A train is moving at a uniform speed of 75 km/hour.

- (i) How far will it travel in 20 minutes?
- (ii) Find the time required to cover a distance of 250 km.

1. Find x in the following figures.



(a)



(b)

47. If the sum of two consecutive numbers is 93 and one of them is x , then the other number is $93 - x$.

- 20.** How many diagonals does a hexagon have?
(a) 9 (b) 8 (c) 2 (d) 6
- 21.** If the adjacent sides of a parallelogram are equal then parallelogram is a
(a) rectangle (b) trapezium (c) rhombus (d) square
- 22.** If the diagonals of a quadrilateral are equal and bisect each other, then the quadrilateral is a
(a) rhombus (b) rectangle (c) square (d) parallelogram
- 23.** The sum of all exterior angles of a triangle is
(a) 180° (b) 360° (c) 540° (d) 720°
- 24.** Which of the following is an equiangular and equilateral polygon?
(a) Square (b) Rectangle (c) Rhombus (d) Right triangle
- 25.** Which one has all the properties of a kite and a parallelogram?
(a) Trapezium (b) Rhombus (c) Rectangle (d) Parallelogram
- 26.** The angles of a quadrilateral are in the ratio 1 : 2 : 3 : 4. The smallest angle is
(a) 72° (b) 144° (c) 36° (d) 18°

- 39.** In case of inverse proportion, $\frac{a_2}{\underline{\quad}} = \frac{b_2}{\underline{\quad}}$
- 40.** If the area occupied by 15 postal stamps is 60 cm^2 , then the area occupied by 120 such postal stamps will be .
- 41.** If 45 persons can complete a work in 20 days, then the time taken by 75 persons will be hours.
- 42.** Devangi travels 50 m distance in 75 steps, then the distance travelled in 375 steps is km.