5. $\frac{3t-2}{4} - \frac{2t+3}{3} = \frac{2}{3} - t$ 6. $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$

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

Simplify and solve the following linear equations.

7. 3(t-3) = 5(2t+1) 8. 15(y-4) - 2(y-9) + 5(y+6) = 0

Example 7: Subtract 3pq(p-q) from 2pq(p+q).

 $\mathbf{I} \mathbf{T} \mathbf{y}$

(b) Simplify $a(a^2 + a + 1) + 5$ and find its value for (i) a = 0, (ii) a = 1(iii) a = -1.

Example 9: Multiply

(i) (a+7) and (b-5)

(iv) $(3^{-7} \div 3^{-10}) \times 3^{-5}$ (v) $2^{-3} \times (-7)^{-3}$

 $\left\{ \left(\frac{-2}{3} \right)^{-2} \right\}^{2}$

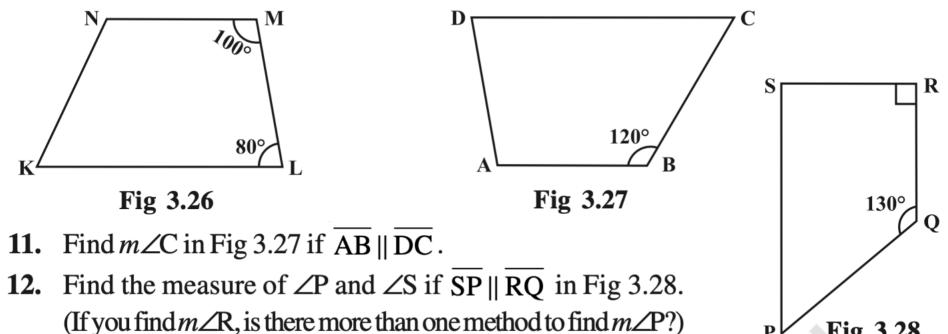
SWY CLES 7. Suppose 2 kg of sugar contains 9×10^6 crystals. How many sugar crystals are there in (i) 5 kg of sugar? (ii) 1.2 kg of sugar?

10. A loaded truck travels 14 km in 25 minutes. If the speed remains the same, how far can it travel in 5 hours?

pole william add a dilactory bill long.

Example 7: 6 pipes are required to fill a tank in 1 hour 20 minutes. How long will it take if only 5 pipes of the same type are used?

10. Explain how this figure is a trapezium. Which of its two sides are parallel? (Fig 3.26)



4. Name the quadrilaterals whose diagonals. (i) bisect each other (ii) are perpendicular bisectors of each other (iii) are equal 5. If you have a spinning wheel with 3 green sectors, 1 blue sector and 1 red sector, what is the probability of getting a green sector? What is the probability of getting a non blue sector?

(11) gotting a 1 digit number.

Season	No. of votes
Summer	90
Rainy """	120
Winter :	150

30%

2. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer. (i) Which season got the most votes? (ii) Find the central angle of each sector. Draw a pie chart to show this

information.