

EXAMPLE 1 Reduce $\frac{-45}{30}$ to the standard form.

EXAMPLE 5 Write four more numbers in the following pattern:

$$\frac{-1}{3}, \frac{-2}{6}, \frac{-3}{9}, \frac{-4}{12}, \dots$$

$$\text{(ii)} \quad \frac{5}{63} - \left(\frac{-6}{21} \right)$$

$$\text{(v)} \quad -2\frac{1}{9} - 6$$

2. Convert the given decimal fractions to per cents.

(a) 0.65

(b) 2.1

(c) 0.02

EXAMPLE 9 If ₹ 250 is to be divided amongst Ravi, Raju and Roy, so that Ravi gets two parts, Raju three parts and Roy five parts. How much money will each get? What will it be in percentages?

6. Juhi sells a washing machine for ₹ 13,500. She loses 20% in the bargain. What was the price at which she bought it?

EXAMPLE 6 In $\triangle PQR$, $PR = 8$ cm, $QR = 4$ cm and $PL = 5$ cm (Fig 9.13).
Find:

- (i) the area of the $\triangle PQR$
- (ii) QM

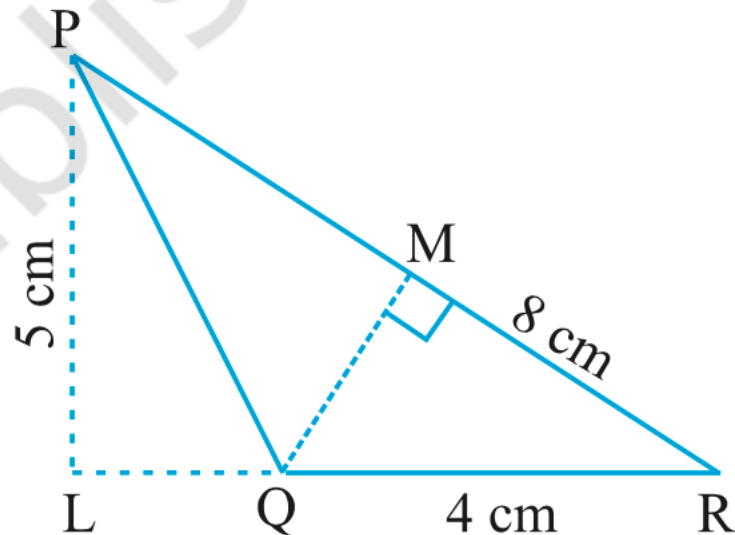


Fig 9.13

SOLUTION



16. How many times a wheel of radius 28 cm must rotate to go 352 m? (Take $\pi = \frac{22}{7}$)

EXAMPLE 6 Find the value of the following expressions for $a = 3$, $b = 2$.

(i) $a + b$

(ii) $7a - 4b$

(iii) $a^2 + 2ab + b^2$

(ii) If $p = 10$, find the value of $p^2 - 2p + 100$

- 9.** What should be the value of a if the value of $2x^2 + x - a$ equals to 5, when $x = 0$?
- 10.** Simplify the expression and find its value when $a = 5$ and $b = -3$.

$$2(a^2 + ab) + 3 - ab$$