4(i) let fixed charges = Rs x
let fare per day = Rs y
acc. to condition I
$x + 20y = 1000 \cdots (i)$
acc. to condition II
$x + 26y = 1180 \cdots (ii)$

(i) − (ii)

$x + 20y = 1000$
$x + 26y = 1180$
$-\quad -\quad -$
$-6y = -180$
$\Rightarrow y = \frac{180}{6}$ (30)
$\Rightarrow y = 30$

Sub (i)
$x + 20 \times 30 = 1000$
$\Rightarrow x = 1000 - 600$
$= 400$

∴ fixed charges = Rs 400
Fare per day = Rs 30

4(ii) let numerator = x
denominator = y
Fraction = $\frac{x}{y}$
acc. to condition I
$\frac{x-1}{y} = \frac{1}{3}$
$\Rightarrow 3x - 3 = y$
$\Rightarrow 3x - y = 3 \cdots (i)$
acc. to cII
$\frac{x}{y+8} = \frac{1}{4}$
$\Rightarrow 4x = y + 8$
$\Rightarrow 4x - y = 8 \cdots (ii)$

(i) − (ii)

$3x - y = 3$
$4x - y = 8$
$-\quad +\quad -$
$-x = -5$

$\Rightarrow x = 5$

Sub (i)
$3 \times 5 - y = 3$
$\Rightarrow y = 15 - 3$
$= 12$
∴ Fraction = $\frac{5}{12}$