



Measurement

Exercise-1

1. (a) $1 \text{ km} = 1000 \text{ m}$
 $\therefore 12 \text{ km} = 12000 \text{ m}$
So, $12 \text{ km } 400 \text{ m} = (12000 + 400) \text{ m} = 12400 \text{ m}$
- (b) $1 \text{ m} = 100 \text{ cm}$
 $\therefore 45 \text{ m} = 45 \times 100 \text{ cm} = 4500 \text{ cm}$
So, $45 \text{ m } 20 \text{ cm} = (4500 + 20) \text{ cm} = 4520 \text{ cm}$
- (c) $1 \text{ hm} = 100 \text{ m}$
 $\therefore 15 \text{ hm} = 15 \times 100 \text{ m} = 1500 \text{ m}$
- (d) $1 \text{ dam} = 1000 \text{ cm}$
 $\therefore 2 \text{ dam} = 2000 \text{ cm}$
So, $2 \text{ dam } 45 \text{ cm} = (2000 + 45) \text{ cm} = 2045 \text{ cm}$
- (e) $1 \text{ g} = 1000 \text{ mg}$
 $\therefore 7.2 \text{ g} = 7.2 \times 1000 \text{ mg} = 7200 \text{ mg}$
- (f) $1 \text{ hg} = 100 \text{ g}$
 $\therefore 8 \text{ hg} = 8 \times 100 \text{ g} = 800 \text{ g}$
So, $8 \text{ hg } 40 \text{ g} = (800 + 40) \text{ g} = 840 \text{ g}$
- (g) $1 \text{ kg} = 1000 \text{ g}$
 $\therefore 54 \text{ kg} = 54 \times 1000 \text{ g} = 54000 \text{ g}$
So, $54 \text{ kg } 800 \text{ g} = (54000 + 800) \text{ g} = 54800 \text{ g}$
- (h) $1 \text{ g} = 1000 \text{ mg}$
 $\therefore 11 \text{ g} = 11 \times 1000 \text{ mg} = 11000 \text{ mg}$
So, $11 \text{ g } 900 \text{ mg} = (11000 + 900) \text{ mg} = 11900 \text{ mg}$
- (i) $1 \text{ k}\ell = 1000 \ell$
 $\therefore 8 \text{ k}\ell = 8 \times 1000 \ell = 8000 \ell$
- (j) $45.5 \ell = 45.5 \times 1000 \text{ m}\ell = 45500 \text{ m}\ell$
- (k) $1 \ell = 100 \text{ c}\ell$
 $\therefore 25 \ell = 25 \times 100 \text{ c}\ell = 2500 \text{ c}\ell$
So, $25 \ell 15 \text{ c}\ell = (2500 + 15) \text{ c}\ell = 2515 \text{ c}\ell$
- (l) $1 \ell = 1000 \text{ m}\ell$

$$\therefore 99 \ell = 99000 \text{ ml}$$

$$\text{So, } 99 \ell \ 99 \text{ ml} = (99000 + 99) \text{ ml} = 99099 \text{ ml}$$

$$\begin{aligned} \text{(a) } 1 \text{ m} &= 100 \text{ cm} \Rightarrow 1 \text{ cm} = \frac{1}{100} \text{ m} = 0.01 \text{ m} \\ \therefore 725 \text{ cm} &= 725 \times 0.01 \text{ m} = 7.25 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{(b) } 1 \text{ dam} &= 100 \text{ dm} \Rightarrow 1 \text{ dm} = \frac{1}{100} \text{ dam} = 0.01 \text{ dam} \\ \therefore 3 \text{ dam } 80 \text{ dm} &= 3 \text{ dam} + 80 \times 0.01 \text{ dam} \\ &= 3 \text{ dam} + 0.8 \text{ dam} = 3.8 \text{ dam} \end{aligned}$$

$$\begin{aligned} \text{(c) } 1 \text{ cm} &= 0.01 \text{ m} \\ \therefore 9 \text{ m } 76 \text{ cm} &= 9 \text{ m} + 76 \times 0.01 \text{ m} \\ &= 9 \text{ m} + 0.76 \text{ m} = 9.76 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{(d) } 1 \text{ km} &= 1000 \text{ m} \Rightarrow 1 \text{ m} = \frac{1}{1000} \text{ km} = 0.001 \text{ km} \\ \therefore 978 \text{ m} &= 978 \times 0.001 \text{ km} = 0.978 \text{ km} \end{aligned}$$

$$\begin{aligned} \text{(e) } 1 \text{ dg} &= 100 \text{ mg} \Rightarrow 1 \text{ mg} = \frac{1}{100} \text{ dg} = 0.01 \text{ dg} \\ \therefore 1575 \text{ mg} &= 1575 \times 0.01 \text{ dg} = 15.75 \text{ dg} \end{aligned}$$

$$\begin{aligned} \text{(f) } 1 \text{ g} &= 1000 \text{ mg} \Rightarrow 1 \text{ mg} = \frac{1}{1000} \text{ g} = 0.001 \text{ g} \\ \therefore 15 \text{ g } 950 \text{ mg} &= 15 \text{ g} + 950 \times 0.001 \text{ g} = 15 \text{ g} + 0.95 \text{ g} = 15.95 \text{ g} \end{aligned}$$

$$\text{(g) } 8505 \text{ mg} = 8505 \times 0.001 \text{ g} = 8.505 \text{ g}$$

$$\begin{aligned} \text{(h) } 1 \text{ kg} &= 1000 \text{ g} \Rightarrow 1 \text{ g} = \frac{1}{1000} \text{ kg} = 0.001 \text{ kg} \\ \therefore 2850 \text{ g} &= 2850 \times 0.001 \text{ kg} = 2.85 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(i) } 1 \text{ dal} &= 100 \text{ dl} \Rightarrow 1 \text{ dl} = \frac{1}{100} \text{ dal} = 0.01 \text{ dal} \\ \therefore 3 \text{ dal } 50 \text{ dl} &= 3 \text{ dal} + 50 \times 0.01 \text{ dal} \\ &= 3 \text{ dal} + 0.5 \text{ dal} = 3.5 \text{ dal} \end{aligned}$$

$$\begin{aligned} \text{(j) } 1 \text{ kl} &= 1000 \ell \Rightarrow 1 \ell = 0.001 \text{ kl} \\ \therefore 2950 \ell &= 2950 \times 0.001 \text{ kl} = 2.95 \text{ kl} \end{aligned}$$

$$\begin{aligned} \text{(k) } 1 \ell &= 100 \text{ cl} \Rightarrow 1 \text{ cl} = \frac{1}{100} \ell = 0.01 \ell \\ \therefore 9 \ell 38 \text{ cl} &= 9 \ell + 38 \times 0.01 \ell = 9 \ell + 0.38 \ell = 9.38 \ell \end{aligned}$$

$$\begin{aligned} \text{(l) } 1 \text{ kl} &= 1000 \ell \Rightarrow 1 \ell = \frac{1}{1000} \text{ kl} = 0.001 \text{ kl} \\ \therefore 735 \ell &= 735 \times 0.001 \text{ kl} = 0.735 \text{ kl} \end{aligned}$$

Exercise-2

1. (a) $9.61 \text{ kg} + 6.75 \text{ kg}$
 $= 16.360 \text{ kg}$

$$\begin{array}{r} \textcircled{1}\textcircled{1} \\ 9.61 \text{ kg} \\ + 6.75 \text{ kg} \\ \hline 16.36 \text{ kg} \end{array}$$

- (b) Convert the given measures into kg using decimal notation,
 $1 \text{ g} = 0.001 \text{ kg}$, $660 \text{ g} = 0.66 \text{ kg}$, $85 \text{ g} = 0.085 \text{ kg}$
 $\therefore 9 \text{ kg } 660 \text{ g} = 9.66 \text{ kg}$, $18 \text{ kg } 85 \text{ g} = 18.085 \text{ kg}$

$$\begin{array}{r} \textcircled{1} \quad \textcircled{1} \\ 9.660 \text{ kg} \\ + 18.085 \text{ kg} \\ \hline 27.745 \text{ kg} \end{array}$$

$\therefore 9 \text{ kg } 660 \text{ g} + 18 \text{ kg } 85 \text{ g} = 27.745 \text{ kg}$

- (c) $1 \text{ l} = 0.001 \text{ kl}$, $35 \text{ l} = 0.035 \text{ kl}$, $10 \text{ l} = 0.010 \text{ kl}$

$\therefore 79 \text{ kl } 35 \text{ l} = 79.035 \text{ kl}$

$95 \text{ kl} = 95.000 \text{ kl}$

$80 \text{ kl } 10 \text{ l} = 80.010 \text{ kl}$

$$\begin{array}{r} \textcircled{2}\textcircled{1} \\ 79.035 \text{ kl} \\ 95.000 \text{ kl} \\ + 80.010 \text{ kl} \\ \hline 254.045 \text{ kl} \end{array}$$

So, $79 \text{ kl } 35 \text{ l} + 95 \text{ kl} + 80 \text{ kl } 10 \text{ l} = 254.045 \text{ kl}$

- (d) $1 \text{ mm} = 0.1 \text{ cm}$, $8 \text{ mm} = 0.8 \text{ cm}$, $6 \text{ mm} = 0.6 \text{ cm}$, $5 \text{ mm} = 0.5 \text{ cm}$

$\therefore 9 \text{ cm } 8 \text{ mm} = 9.8 \text{ cm}$

$6 \text{ mm} = 0.6 \text{ cm}$

$10 \text{ cm } 5 \text{ mm} = 10.5 \text{ cm}$

$$\begin{array}{r} \textcircled{1}\textcircled{1} \\ 9.8 \text{ cm} \\ 0.6 \text{ cm} \\ + 10.5 \text{ cm} \\ \hline 20.9 \text{ cm} \end{array}$$

$\therefore 9 \text{ cm } 8 \text{ mm} + 6 \text{ mm} + 10 \text{ cm } 5 \text{ mm} = 20.9 \text{ cm}$

- (e) $1 \text{ m} = 0.001 \text{ km}$, $63 \text{ m} = 0.063 \text{ km}$

$\therefore 85.93 \text{ km} + 63 \text{ m} = 85.993 \text{ km}$

$$\begin{array}{r} 85.930 \text{ km} \\ + 0.063 \text{ km} \\ \hline 85.993 \text{ km} \end{array}$$

(f) $1 \text{ ml} = 0.001 \text{ l}$, $65 \text{ ml} = 0.065 \text{ l}$, $90 \text{ ml} = 0.090 \text{ l}$, $86 \text{ ml} = 0.086 \text{ l}$

$\therefore 99 \text{ l } 65 \text{ ml} = 99.065 \text{ l}$

$90 \text{ ml} = 0.090 \text{ l}$

$10 \text{ l } 86 \text{ ml} = 10.086 \text{ l}$

$$\begin{array}{r} \textcircled{1} \quad \textcircled{2} \textcircled{1} \\ 99.065 \text{ l} \\ 0.090 \text{ l} \\ + 10.086 \text{ l} \\ \hline 109.241 \text{ l} \end{array}$$

$\therefore 99 \text{ l } 65 \text{ ml} + 90 \text{ ml} + 10 \text{ l } 86 \text{ ml} = 109.241 \text{ l}$

2. (a) $9.69 \text{ kg} - 6.75 \text{ kg}$
 $= 2.94 \text{ kg}$

$$\begin{array}{r} \textcircled{8} \textcircled{16} \\ 9.69 \text{ kg} \\ - 6.75 \text{ kg} \\ \hline 2.94 \text{ kg} \end{array}$$

(b) $1 \text{ m} = 0.001 \text{ km}$, $625 \text{ m} = 0.625 \text{ km}$, $125 \text{ m} = 0.125 \text{ km}$

$\therefore 10 \text{ km } 625 \text{ m} = 10.625 \text{ km}$

$12 \text{ km } 125 \text{ m} = 12.125 \text{ km}$

$\therefore 12 \text{ km } 125 \text{ m} - 10 \text{ km } 625 \text{ m} = 1.500 \text{ km}$

$$\begin{array}{r} \textcircled{1} \textcircled{11} \\ 12.125 \text{ km} \\ - 10.625 \text{ km} \\ \hline 1.500 \text{ km} \end{array}$$

(c) $1 \text{ cm} = 0.01 \text{ m}$, $89 \text{ cm} = 0.89 \text{ m}$, $5 \text{ cm} = 0.05 \text{ m}$

$\therefore 2 \text{ m } 5 \text{ cm} = 2.05 \text{ m}$

$2 \text{ m } 5 \text{ cm} - 89 \text{ cm} = 1.16 \text{ m}$

$$\begin{array}{r} \textcircled{1} \\ \textcircled{1} \textcircled{10} \textcircled{15} \\ 2.05 \text{ m} \\ - 0.89 \text{ m} \\ \hline 1.16 \text{ m} \end{array}$$

(d) $1 \text{ ml} = 0.001 \text{ l}$, $56 \text{ ml} = 0.056 \text{ l}$

$\therefore 10 \text{ l } 56 \text{ ml} = 10.056 \text{ l}$

$20 \text{ l} = 20.000 \text{ l}$

$\therefore 20 \text{ l} - 10 \text{ l } 56 \text{ ml} = 9.944 \text{ l}$

$$\begin{array}{r} \textcircled{9} \quad \textcircled{9} \textcircled{9} \\ \textcircled{1} \textcircled{10} \textcircled{10} \textcircled{10} \textcircled{10} \\ 20.000 \text{ l} \\ - 10.056 \text{ l} \\ \hline 9.944 \text{ l} \end{array}$$

(e) $1 \text{ g} = 0.001 \text{ kg}$, $390 \text{ g} = 0.390 \text{ kg}$, $160 \text{ g} = 0.160 \text{ kg}$

$\therefore 1 \text{ kg } 160 \text{ g} = 1.160 \text{ kg}$

$\therefore 1 \text{ kg } 160 \text{ g} - 390 \text{ g} = 0.770 \text{ kg}$

$$\begin{array}{r} \textcircled{10} \\ \textcircled{0} \quad \textcircled{16} \\ 1.160 \text{ kg} \\ - 0.390 \text{ kg} \\ \hline 0.770 \text{ kg} \end{array}$$

$$(f) \ 1 \text{ mg} = 0.001 \text{ g}, \ 690 \text{ mg} = 0.690 \text{ g}, \ 150 \text{ mg} = 0.150 \text{ g}$$

$$\therefore \ 8 \text{ g } 690 \text{ mg} = 8.690 \text{ g}$$

$$20 \text{ g } 150 \text{ mg} = 20.150 \text{ g}$$

$$\therefore \ 20 \text{ g } 150 \text{ mg} - 8 \text{ g } 690 \text{ mg} = 11.460 \text{ g}$$

$$\begin{array}{r} \textcircled{9} \textcircled{10} \\ \textcircled{1} \textcircled{10} \textcircled{15} \\ 20.150 \\ - 8.690 \\ \hline 11.460 \end{array}$$

$$3. \text{ Total length of the cloth} = 6 \text{ m } 25 \text{ cm} + 1 \text{ m } 75 \text{ cm} + 8 \text{ m } 50 \text{ cm}$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \textcircled{1} \\ 6.25 \text{ m} \end{array}$$

$$1.75 \text{ m}$$

$$+ 8.50 \text{ m}$$

$$\hline 16.50 \text{ m}$$

$$= 6.25 \text{ m} + 1.75 \text{ m} + 8.50 \text{ m}$$

$$= 16.50 \text{ m}$$

$$\begin{array}{l} 1 \text{ cm} = 0.01 \text{ m} \\ 25 \text{ cm} = 0.25 \text{ m} \\ 75 \text{ cm} = 0.75 \text{ m} \\ 50 \text{ cm} = 0.50 \text{ m} \end{array}$$

$$4. \text{ Total distance travelled by Ali} = 18 \text{ km } 200 \text{ m} + 12 \text{ km } 600 \text{ m} + 3 \text{ km } 425 \text{ m}$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 18.200 \text{ km} \end{array}$$

$$12.600 \text{ km}$$

$$+ 3.425 \text{ km}$$

$$\hline 34.225 \text{ km}$$

$$= 18.200 \text{ km} + 12.600 \text{ km} + 3.425 \text{ km}$$

$$= 34.225 \text{ km}$$

$$\begin{array}{l} 1 \text{ m} = 0.001 \text{ km} \\ 200 \text{ m} = 0.200 \text{ km} \\ 600 \text{ m} = 0.600 \text{ km} \\ 425 \text{ m} = 0.425 \text{ km} \end{array}$$

$$5. \text{ Total weight of the fruits} = 4 \text{ kg } 200 \text{ g} + 2 \text{ kg } 800 \text{ g} + 5 \text{ kg } 750 \text{ g}$$

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 4.200 \text{ kg} \end{array}$$

$$2.800 \text{ kg}$$

$$+ 5.750 \text{ kg}$$

$$\hline 12.750 \text{ kg}$$

$$= 4.200 \text{ kg} + 2.800 \text{ kg} + 5.750 \text{ kg}$$

$$= 12.750 \text{ kg}$$

$$\begin{array}{l} 1 \text{ g} = 0.001 \text{ kg} \\ 200 \text{ g} = 0.200 \text{ kg} \\ 800 \text{ g} = 0.800 \text{ kg} \\ 750 \text{ g} = 0.750 \text{ kg} \end{array}$$

Thus, the total weight of fruits bought by Maya is 12.750 kg.

$$6. \text{ The weight of a box full of dry fruits} = 12.650 \text{ kg}$$

$$\text{The weight of dry fruits} = 9 \text{ kg } 800 \text{ g} = 9.800 \text{ kg}$$

$$\text{The weight of empty box} = (12.650 - 9.800) \text{ kg}$$

$$= 2.850 \text{ kg}$$

$$= 2.850 \times 1000 \text{ g}$$

$$= 2850 \text{ g}$$

$$\begin{array}{r} \textcircled{11} \textcircled{16} \\ \textcircled{0} \textcircled{2} \textcircled{16} \\ 12.650 \text{ kg} \\ - 9.800 \text{ kg} \\ \hline 2.850 \text{ kg} \end{array}$$

7. Quantity of oil left

$$\begin{array}{r} \textcircled{6} \textcircled{9} \textcircled{9} \textcircled{10} \\ 7.000 \ell \\ - 2.355 \ell \\ \hline 4.645 \ell \end{array}$$

$$= 7 \ell - 2 \ell 355 \text{ ml}$$

$$= 7 \ell - 2.355 \ell$$

$$= 4.645 \ell$$

$$= 4 \ell 645 \text{ ml}$$

$$\begin{array}{l} 1 \text{ ml} = 0.001 \ell \\ 355 \text{ ml} = 0.355 \ell \end{array}$$

8. Quantity of water left in the tank at the end of the day

$$\begin{array}{r} \textcircled{2} \textcircled{9} \textcircled{9} \textcircled{9} \textcircled{10} \\ 300.000 \ell \\ - 87.225 \ell \\ \hline 212.775 \ell \end{array}$$

$$= 300 \ell - 87 \ell 225 \text{ ml}$$

$$= 300 \ell - 87.225 \ell$$

$$= 212.775 \ell$$

$$= 212 \ell 775 \text{ ml}$$

$$\begin{array}{l} 1 \text{ ml} = 0.001 \ell \\ 225 \text{ ml} = 0.225 \ell \end{array}$$

Exercise-3

1. The length of cloth required to make one shirt = 2 m 40 cm

$\therefore$ The length of cloth required to make 10 shirts = $2 \text{ m } 40 \text{ cm} \times 10$

$$= 2.40 \text{ m} \times 10$$

$$= 24 \text{ m}$$

Thus, 24 m cloth is required to make 10 shirts.

2. The total weight of 7 tins of biscuits = $1 \text{ kg } 750 \text{ g} \times 7$

$$\begin{array}{r} 1.750 \\ \times 7 \\ \hline 12.250 \end{array}$$

$$= 1.750 \text{ kg} \times 7$$

$$= 12.250 \text{ kg}$$

3. The length of the ribbon = $8 \text{ m } 54 \text{ cm} = 8.54 \text{ m}$

It is cut into 7 equal pieces.

$$\text{The length of each piece} = 8.54 \text{ m} \div 7 = \frac{854}{100} \text{ m} \div 7$$

$$\begin{array}{l} 1 \text{ cm} = 0.01 \text{ m} \\ 54 \text{ cm} = 0.54 \text{ m} \end{array}$$

$$= \left(\frac{854}{100} \div 7 \right) \text{ m} = \left(\frac{854}{100} \times \frac{1}{7} \right) \text{ m} = \frac{122}{100} \text{ m}$$

$$= 1.22 \text{ m}$$

Thus, the length of each piece is 1.22 m.

4. The quantity of rice, each family will get = $48 \text{ kg } 700 \text{ g} \div 5$

$$= 48.700 \text{ kg} \div 5$$

$$\begin{array}{l}
 \boxed{\begin{array}{l} 1 \text{ g} = 0.001 \text{ kg} \\ 700 \text{ g} = 0.700 \text{ kg} \end{array}} = \left(\frac{48700}{1000} \div 5 \right) \text{ kg} = \left(\frac{9740}{1000} \times \frac{1}{5} \right) \text{ kg} \\
 = \frac{9740}{1000} \text{ kg} = 9.740 \text{ kg}
 \end{array}$$

5. Total quantity of soup = 8 ℓ 785 ml
= 8.785 ℓ

It was distributed equally among 7 people.

The quantity of soup was given to each person = $8.785 \ell \div 7$

$$\begin{array}{l}
 \boxed{\begin{array}{l} 1 \text{ ml} = 0.001 \ell \\ 785 \text{ ml} = 0.785 \ell \end{array}} = \left(\frac{8785}{1000} \div 7 \right) \ell = \left(\frac{1255}{1000} \times \frac{1}{7} \right) \ell \\
 = \frac{1255}{1000} \ell = 1.255 \ell = 1 \ell 255 \text{ ml}
 \end{array}$$

Thus, 1 ℓ 255 ml soup was given to each person.

Review Exercise

1. (a) $9.325 \text{ kg} = 9.325 \times 1000 \text{ g} = 9325 \text{ g}$

(b) $14 \ell 525 \text{ ml} = 14 \ell + 525 \times 0.001 \ell$

$$= 14 \ell + 0.525 \ell$$

$$= 14.525 \ell$$

$$\boxed{\begin{array}{l} 1 \text{ ml} = 0.001 \ell \\ 525 \text{ ml} = 0.525 \ell \end{array}}$$

(c) $1 \text{ dam} = \frac{1}{100} \text{ km} = 0.01 \text{ km}$

$$\therefore 5 \text{ km } 25 \text{ dam} = (5 + 25 \times 0.01) \text{ km}$$

$$= (5 + 0.25) \text{ km} = 5.25 \text{ km}$$

(d) $1 \ell = \frac{1}{1000} \text{ k}\ell = 0.001 \text{ k}\ell$

$$\therefore 7365 \ell = 7365 \times 0.001 \text{ k}\ell = 7.365 \text{ k}\ell$$

(e) $23 \text{ km } 50 \text{ m} = (23 \times 1000 + 50) \text{ m} = (23000 + 50) \text{ m} = 23050 \text{ m}$

(f) $1 \text{ cm} = 0.01 \text{ m}$

$$\therefore 9356 \text{ cm} = 9356 \times 0.01 \text{ m} = 93.56 \text{ m}$$

2. The distance covered by bus in 1 hour = 122 km 100 m ÷ 6
 = 122.1 km ÷ 6

$$= \left(\frac{1221}{10} \div 6 \right) \text{ km} = \left(\frac{1221}{10} \times \frac{1}{6} \right) \text{ km}$$

3. The total weight of the items = 10 kg 400 g + 15 kg 500 g + 4 kg 600 g
 = 10.400 kg + 15.500 kg + 4.600 kg
 = 30.5 kg

1 g = 0.001 kg
 400 g = 0.400 kg
 500 g = 0.500 kg
 600 g = 0.600 kg

$$\begin{array}{r} \textcircled{1} \textcircled{1} \\ 10.400 \text{ kg} \\ 15.500 \text{ kg} \\ + 4.600 \text{ kg} \\ \hline 30.500 \text{ kg} \end{array}$$

Thus, Mrs Anwar bought 30.5 kg of the items.

4. The mango juice bought by Rohini = 5.5 l
 The mango juice consumed = 3 l 925 ml = 3.925 l
 The quantity of juice left = 5.5 l - 3.925 l
 = 1.575 l

1 ml = 0.001 l
 925 ml = 0.925 l

$$\begin{array}{r} \textcircled{14} \textcircled{9} \\ \textcircled{4} \textcircled{4} \textcircled{10} \textcircled{10} \\ 5.500 \text{ l} \\ - 3.925 \text{ l} \\ \hline 1.575 \text{ l} \end{array}$$

The quantity of juice left with Rohini is 1.575 l.

HOTS

A box has 4 red bottles, 5 blue bottles and 3 green bottles of capacity 500 ml, 625 ml and 750 ml respectively.

(a) 4 red bottles each of capacity 500 ml.

∴ Total capacity of 4 red bottles = 4 × 500 ml
 = 2000 ml

5 blue bottles each of capacity 625 ml.

∴ Total capacity of 5 blue bottles = 5 × 625 ml
 = 3125 ml

3 green bottles each of capacity 750 ml.

$$\begin{aligned}\therefore \text{Total capacity of 3 green bottles} &= 3 \times 750 \text{ ml} \\ &= 2250 \text{ ml}\end{aligned}$$

So, the individual capacity of red, blue and green bottles are 2000 ml, 3125 ml and 2250 ml respectively.

$$\begin{aligned}\text{(b) Total capacity of all bottles} &= 2000 \text{ ml} + 3125 \text{ ml} + 2250 \text{ ml} \\ &= 7375 \text{ ml} \\ &= 7375 \times 0.001 \ell \\ &= 7.375 \ell\end{aligned}$$

Thus, the total capacity of all bottles in the box is 7.375 ℓ .