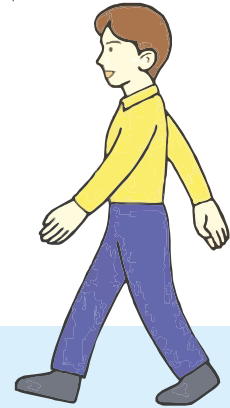


**01**

Charan was training for a physical fitness test. On the first day, he walked 1.85 km. On every training session after that, he walked a distance of 0.25 km more than the training session before. How far did Charan walk during the 10th training session ?



Training session	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>
Distance (km)	1.85	2.1	2.35	2.6	2.85	3.1	3.35	3.6	3.85	4.1

0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25

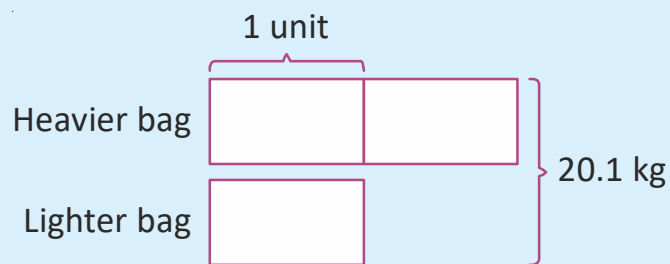
OR

$$0.25 \times 9 = 2.25$$

$$1.85 + 2.25 = 4.1$$

Charan walked 4.1 km during the 10<sup>th</sup> training session

**02** Priya buys two bags of rice. The heavier bag of rice is twice as heavy as the other bag of rice. Find the mass of the heavier bag of rice if the total mass of the two bags of rice is 20.1 kg.



$$3 \text{ units} = 20.1 \text{ kg}$$

$$1 \text{ unit} = 20.1 \div 3 = 6.7 \text{ kg}$$

$$\text{Mass of the heavier bag of rice} = 6.7 \text{ kg} \times 2 = 13.4 \text{ kg}$$

The mass of the heavier bag of rice is 13.4 kg

**03** In a Mathematics test, Sunil scored 0.6 of what Manish scored and Manish scored 0.7 of what Dinesh scored. If Manish scored 70 marks, what is the difference of marks between Dinesh and Sunil ?



Sunil : 60 units, Manish : 100 units

100 units = 70

1 unit =  $70 \div 100 = 0.7$

60 units =  $60 \times 0.7 = 42$

Manish : 70 parts, Dinesh : 100 parts

70 parts = 70

1 part =  $70 \div 70 = 1$

100 parts =  $100 \times 1 = 100$

$100 - 42 = 58$

Dinesh scored 58 more marks than Sunil

**04**

A pencil and an eraser cost ₹6.9. Prakash bought 3 pencils and 4 erasers and paid ₹23.4. Find the total cost of 2 pencils and 2 erasers.



$$\text{Cost of three pencils and 3 erasers} = 3 \times ₹ 6.9 = ₹ 20.7$$

$$\text{Cost of eraser} = ₹ 23.4 - ₹ 20.7 = ₹ 2.7$$

$$\therefore \text{Cost of each pencil} = ₹ 6.9 - ₹ 2.7 = ₹ 4.2$$

$$\begin{aligned} \therefore \text{Cost of 3 pencils and 2 erasers} \\ = 2 \times ₹ 4.2 + 2 \times ₹ 2.7 = ₹ 13.4 \end{aligned}$$

**05**

A private car park charges ₹ 20.40 for the first hour of parking and ₹ 10.45 for every additional half hour or part thereof. If Sunny parked his car in the carpark for 3 h 10 min, how much would he have to pay ?



$$\text{Amount paid for the first hour} = ₹ 20.40$$

$$\begin{aligned} \text{Amount paid for the next five half an hours} \\ = 5 \times ₹ 10.45 = ₹ 52.25 \end{aligned}$$

$$\begin{aligned} \therefore \text{Total amount paid for 3 h 10 min} \\ = ₹ 20.40 + ₹ 52.25 = ₹ 72.65 \end{aligned}$$