SNBP International & Sr. Secondary School Affiliation No. 1130703 Academic session 2024-2 Notes-(Term-2) Sub-math	l, Chikhali, Pune. 3 25
Prepared by -Pranjali Patil Exercise 8.1	L-8 Decimals
Solution: (a) 0.3 or 0.4 $0.3 = \frac{3}{10}$ and $0.4 = \frac{4}{10}$ Here, $\frac{3}{10} < \frac{4}{10}$ $\therefore 0.4$ is greater than 0.3	
(b) 0.07 or 0.02 $0.07 = \frac{7}{100}$ and $0.02 = \frac{2}{100}$ Here, $\frac{7}{100} > \frac{2}{100}$ ∴ 0.07 is greater than 0.02.	
(c) 3 or 0.8 3 is greater than 0 and $0 > 0.8$ $\therefore$ 3 is greater than 0.8.	
(d) 0.5 or 0.05 $0.5 = 0.50 = \frac{50}{100}$ and $0.05 = \frac{5}{100}$ Here, $\frac{50}{100} > \frac{5}{100}$ $\therefore 0.5$ is greater than 0.05.	
(e) 1.23 or 1.2 $1.23 = \frac{123}{100}$ and $1.2 = \frac{12}{10} = \frac{120}{100}$ Here, $\frac{123}{100} > \frac{120}{100}$ $\therefore$ 1.23 is greater than 1.2	

(f) 0.099 or 0.19  $0.099 = \frac{99}{1000}$  and  $0.19 = \frac{19}{100} = \frac{190}{1000}$ Here,  $\frac{99}{1000} < \frac{190}{1000}$  $\therefore$  0.19 is greater than 0.099. (g) 1.5 or 1.50  $1.5 = \frac{1.5}{10} = \frac{150}{100}$  and  $1.50 = \frac{150}{100}$ Here,  $\frac{150}{100} = \frac{150}{100}$  $\therefore$  1.5 is greater than 1.50. (h) 1.431 or 1.490  $1.431 = \frac{1431}{1000}$  and  $1.490 = \frac{1490}{1000}$ Here,  $\frac{1431}{1000} < \frac{1490}{1000}$  $\therefore$  1.490 is greater than 1.431. (i) 3.3 or 3.300  $3.3 = 3.300 = \frac{3300}{1000}$ and  $3.300 = \frac{3300}{1000}$ Here,  $\frac{3300}{1000} = \frac{3300}{1000}$  $\therefore$  3.3 is greater than 3.300. (j) 5.64 or 5.603  $5.64 = 5.640 = \frac{5640}{1000}$ and  $5.603 = \frac{5603}{1000}$ Here,  $\frac{5640}{1000} > \frac{5603}{1000}$  $\therefore$  5.64 is greater than 5.603.

Solution: (a) 5 paise =  $5 \times \frac{1}{100} = 0.05[\because 100 \text{ paise} = ₹ 1]$ So, 5 paise = ₹ 0.05 (b) 75 paise =  $75 \times \frac{1}{100} = 0.75$ [∵ 100 paise = ₹ 1] So, 75 paise = ₹ 0.75 (c) 20 paise =  $20 \times \frac{1}{100} = 0.20$ [∵100 paise = ₹ 1] So, 20 paise = ₹ 0.20 (d) 50 rupees 90 paise  $=\left(\overline{\mathfrak{T}50}+\overline{\mathfrak{T}}\frac{90}{100}\right)=\overline{\mathfrak{T}}\left(50+\frac{0.90}{100}\right)$ [∵ 100 paise = ₹ 1] = ₹ (50 + 0.90) So, 50 rupees 90 paise = ₹ 50.90 (e) 725 paise = ₹ 725 ×  $\frac{1}{100}$ [∵ 100 paise = ₹ 1] = ₹7.25 So, 725 paise = ₹7.25 Ex 8.2 Express as metres using decimals, (a) 15cm (b) 6cm (c) 2m 45cm (d) 9m 7cm (e) 419 cm Solution:

(a) 15 cm = 15 ×  $\frac{1}{100}$  m = 0.15 m [:: 100 cm = 1 m] So, 15 cm = 0.15 m(b) 6 cm = 6 ×  $\frac{1}{100}$  m = 0.06 m [:: 100 cm = 1 m]So, 6 cm = 0.06 m (c) 2 m 45 cm = 2 m +  $\frac{45}{100}$  m [:: 100 cm = 1 m] $= \left(2 + \frac{45}{100}\right)m = (2 + 0.45) m$ = 2.45 m So, 2 m 45 cm = 2.45 m (d) 9 m 7 cm =  $\left(9 \text{ m} + \frac{7}{100} \text{ m}\right)$  [: 100 cm = 1 m]  $=\left(9+\frac{7}{100}\right)m=(9+0.07)m$ = 9.07 m So, 9 m 7 cm = 9.07 m(e) 419 cm = 419 ×  $\frac{1}{100}$  m [:: 100 cm = 1 m] = 4.19 m So, 419 cm = 4.19 m Ex 8.2 Express as cm using decimals. (a) 5 mm (b) 60 mm (c) 164 mm (d) 9 cm 8 mm (e) 93 mm

Solution: (a) 5 mm = 5 ×  $\frac{1}{10}$  = 0.5 cm [:: 10 mm = 1 cm] So, 5 mm = 0.5 cm(b) 60 mm = 60 ×  $\frac{1}{10}$  = 6.0 cm [∵ 10 mm = 1 cm] So, 60 mm = 6.0 cm(c) 164 mm =  $164 \times \frac{1}{10} = 16.4$  cm [:: 10 mm = 1 cm] So, 164 mm = 16.4 cm (d) 9 cm 8 mm = 9 cm + 8 ×  $\frac{1}{10}$  cm  $[\because 10 \text{ mm} = 1 \text{ cm}]$  $=\left(9+\frac{8}{10}\right)$  cm = (9 + 0.8) cm = 9.8 cmSo, 9 cm 8 mm = 9.8 cm. (e) 93 mm = 93  $\times \frac{1}{10}$  cm = 9.3 cm [:: 10 mm = 1 cm]So, 93 mm = 9.3 cm. Express as km using decimals. (a) 8 m (b) 88 m (c) 8888 m (d) 70km 5m Solution: (a) 8 m = 8 ×  $\frac{1}{1000}$  = 0.008 km [:: 1000 m = 1 km]8 m = 0.008 kmSo. (b) 88 m = 88 ×  $\frac{1}{1000}$  = 0.088 km [:: 1000 m = 1 km] So, 88 m = 0.088 km (c) 8888 m = 8888 ×  $\frac{1}{1000}$  = 8.888 km [:: 1000 m = 1 km] So, 8888 m = 8.888 km

6/Maths/L-8/term1

(d) 70 km 5 m =  $\left(70 \text{ km} + \frac{5}{1000} \text{ km}\right)$ [:: 1000 m = 1 km]  $=\left(70+\frac{5}{1000}\right)$  km = (70 + 0.005) km = 70.005 kmSo, 70 km 5 m = 70.005 km. Ex 8.2 Class 6 Maths Question 5. Express as kg using decimals. (a) 2 g (b) 100 g (c) 3750 g (d) 5 kg 8 g (e) 26 kg 50 g Solution: (a)  $2 g = 2 \times \frac{1}{1000} \text{ kg} = 0.002 \text{ kg}$ [:: 1000 g = 1 kg] So, 2 g = 0.002 kg(b) 100 g = 100 ×  $\frac{1}{1000}$  kg = 0.100 kg [:: 1000 g = 1 kg] So, 100 g = 0.100 kg (c)  $3750 \text{ g} = 3750 \times \frac{1}{1000} \text{ kg} = 3.750 \text{ kg}$ [::1000 g = 1 kg]So, 3750 g = 3.750 kg (d) 5 kg 8 g =  $\left(5 \text{ kg} + \frac{8}{1000} \text{ kg}\right)$ [:: 1000 g = 1 kg] $=\left(5+\frac{8}{1000}\right)$  kg = (5 + 0.008) kg = 5.008 kgSo, 5 kg 8 g = 5.008 kg (e) 26 kg 50 g = 26 kg +  $\frac{50}{1000}$  kg [:: 1000 g = 1 kg]  $=\left(26+\frac{50}{1000}\right)$ kg = (26 + 0.050) kg = 26.050 kgSo, 26 kg 50 g = 26.050 kg

6/Maths/L-8/term1

Ex 8.3 Class 6 Maths Question 1. Find the sum in each of the following: (a) 0.007 + 8.5 + 30.08 (b) 15 + 0.632 + 13.8 (c) 27.076 + 0.55 + 0.004(d) 25.65 + 9.005 + 3.7 (e) 0.75 + 10.425 + 2(f) 280.69 + 25.2 + 38 Solution: (a) 0.007 + 8.5 + 30.08 = 0.007 + 8.500 + 30.080 (making like decimals) = 38.587 0.007 8.500 +30.08038.587(b) 15 + 0.632 + 13.8 = 15.000 + 0.632 + 13.800 (making like decimals) = 29.43215.0000.63213.80029.432(c) 27.076 + 0.55 + 0.004= 27.076 + 0.550 + 0.004 (making like decimals) = 27.63027.0760.550+0.00427.630(d) 25.65 + 9.005 + 3.7 = 25.650 + 9.005 + 3.700 (making like decimals) = 38.355 25.6509.005 +3.70038.355(e) 0.75 + 10.425 + 2= 0.750 + 10.425 + 2.000 (making like decimals)

= 13.175
0.750
10.425 ± 2.000
13 175
(f) $280.69 + 25.2 + 38$ = $280.69 + 25.20 + 38.00$ (making like decimals) = $343.89$ 280.69 25.20 + 38.00 $\overline{343.89}$
Ex 8.3 Class 6 Maths Question 2. Rashid spent ₹35.75 for Maths book and ₹32.60 for Science book. Find the total amount spent by Rashid.
Solution:
Money spent by Rashid for Science book = ₹35.75 Money spent by Rashid for Science book = ₹32.60
∴ Total money spent by Rashid on both books = ₹35.75 + ₹32.60 = ₹68.35
35.75
+32.60
Ex 8.3 Class 6 Maths Question 3. Radhika's mother gave her ₹10.50 and her father gave her ₹15.80, find the total amount given to Radhika by her parents. Solution: Money given by Radhika's mother = ₹10.50 Money given by her father = ₹15.80 $\therefore$ Total money given to her by her parents = ₹10.50 + ₹15.80 = ₹26.30 10.50 + 15.80 <u>26.30</u>
Ex 8.3 Class 6 Maths Question 4. Nasreen bought 3 m 20 cm cloth for her shirt and 2 m 5 cm cloth for her trouser. Find the total length of cloth bought by her. Solution: Length of cloth bought by Nasreen for her shirt = 3 m 20 cm = 3 20 m
Length of cloth brought by her for her trouser = $2 \text{ m} 5 \text{ cm} = 2.05 \text{ m}$

Total length of cloth bought by her = 3.20 m + 2.05 m = 5.25 m3.20+2.055.25Ex 8.3 Class 6 Maths Question 5. Naresh walked 2 km 35 m in the morning and 1 km 7 m in the evening. How much distance did he walk in all? Solution: Distance walked by Naresh in the morning = 2 km 35 m = (2 + 351000) km = 2.035km. Distance walked by him in the evening = 1 km 7 m = (1 + 71000) km = 1.007 km1000) : Total distance walked by him in all = (2.035 + 1.007) km = 3.042 km 2.035+1.0073.042Ex 8.3 Class 6 Maths Question 6. Sunita travelled 15 km 268 m by bus, 7 km 7 m by car and 500 m on foot in order to reach her school. How far is her school from her residence? Solution: Distance travelled by Sunita by bus = 15 km 268 m = (15 + 2681000) = 15.268 kmDistance travelled by her by car = 7 km 7 m = (7 + 71000) km= 7.007km Ex 8.6 Class 6 Maths Question 1. Subtract: (a) ₹18.25 from ₹20.75 (b) 202.54 m from 250 m (c) ₹5.36 from ₹8.40 (d) 2.051 km from 5.206 km (e) 0.314 kg from 2.107 kg Solution: (a) ₹18.25 from 20.75 = 20.75 - 18.25= 2.5020.75-18.252.50(b) 202.54 m from 250 m = 250 m - 202.54 m = 250.00 m - 202.54 m

$= 47.46 \text{ m}$ $259 9 \cdot 910$ $-202.54$ $47.46$
(c) ₹5.36 from ₹8.40 = ₹8.40 - ₹5.36 = ₹3.04 $8.\frac{310}{4}$ $-\frac{5.36}{3.04}$
(d) 2.051 km from 5.206 km = 5.206 km - 2.051 km = 3.155 km 5.206 -2.051 3.155
(e) 0.314 kg from 2.107 kg = 2.107 kg - 0.314 kg = 1.793 kg $\frac{1}{2}$ .107 $\frac{-0.314}{1.793}$
Ex 8.4 Class 6 Maths Question 2. Find the value of: (a) $9.756 - 6.28$ (b) $21.05 - 15.27$ (c) $18.5 - 6.79$ (d) $11.6 - 9.847$ Solution: (a) We have $9.756 - 6.25$ = $9.756 - 6.250$ = $3.506$ 9.756 <u>-6.250</u> <u>3.506</u>

(b) We have 21.05 – 15.27
= 5.78
1 101015 22.05
-15.27
5.78
(c) We have 18.5 – 6.79
= 18.50 - 6.79
= 11.71
7 1410 1 8.50
$\frac{6.79}{11.71}$
$\begin{array}{c} (0) & 11.6 - 9.847 \\ - 11.600 - 9.847 \end{array}$
= 1.753
0, 15,9,10
14.600
$\frac{-5.647}{1.753}$
Ex 8.4 Class 6 Maths Question 3.
Raju bought a book for ₹35.65. He gave ₹50 to the shopkeeper. How much money
did ne get back from the shopkeeper?
Cost of book = ₹35.65
Money paid by him to the shopkeeper = ₹50
∴ Money got back by him
= ₹50 – ₹35.65
= ₹50.00 - ₹35.65
= < 14.35 4 9 910
50.00
-35.65
_14.35
Ex 8.6 Class 6 Maths Question 4. Papi had $\mp 18.50$ She bought one ice groom for $\mp 11.75$ . How much monoy does she
have now?
Solution:
Money Rani had ₹18.50
She bought ice-cream for ₹11.75
Money Rani had ₹18.50 She bought ice-cream for ₹11.75

∴ Money left with Rani = ₹ 18.50 – ₹11.75 = ₹6.75 7 14 10 1 Ø. ØØ -11.756.75Ex 8.4 Class 6 Maths Question 5. Tina had 20 m 5 cm long cloth. She cuts 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her? Solution: Length of cloth had by Tina = 20 m 5 cm = 20.05 mLength of cloth cut by her = 4 m 50 cm= 4.50 m $\therefore$  Length of cloth left with her = 20.05 m -4.50 m = 15.55 m 191020.05 - 4.50 15.55Ex 8.4 Class 6 Maths Question 6. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto. How much distance does she travel by auto? Solution: Distance travelled by Namita daily = 20 km 50 m or 20.050 km Distance travelled by her by bus = 10 km 200 m or 10.200 km  $\therefore$  Distance travelled by her by auto = (20.050 - 10.200) km = 9.850 km  $\overset{1}{2}\overset{9}{0}\overset{10}{,}\overset{10}{0}50$ -10.2009.850 Ex 8.4Class 6 Maths Question 7. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and the rest is potatoes. What is the weight of the potatoes? Solution: Weight of vegetables bought by Aakash = 10 kg Weight of onions bought by him = 3 kg 500 g= 3.500 kgand weight of tomatoes bought by him = 2 kg 75 g = 2.075 kg: Weight of potatoes = Weight of vegetable – (weight of onions + weight of tomatoes) = 10.000 - (3.500 + 2.075)= 10.000 - 5.575 = 4.425 kg