Class Notes

Class: VI	Topic: Ch-8 –Decimal Date: 30/10/21 Day : Saturday
Subject: Mathematics	

Exercise – 8.3

1. Which is greater?

(a) 0.3 or 0.4

Whole parts for both the numbers are same. We know that the tenth part of 0.4 is greater than that of 0.3

∴ 0.4 > 0.3

(b) 0.07 or 0.02

Both the numbers have same parts up to the tenth place but the hundredth part of 0.07 is greater than that of 0.02

∴ 0.07 > 0.02

(c) 3 or 0.8

The whole part of 3 is greater than that of 0.8

∴ 3 > 0.8

(d) 0.5 or 0.05

Whole parts for both the numbers are same. Here the tenth part of 0.5 is greater than that of 0.05

∴ 0.5 > 0.05

(e) 1.23 or 1.20

Here both the numbers have same parts up to the tenth place. The hundredth part of 1.23 is greater than that of 1.20

∴ 1.23 > 1.20

(f) 0.099 or 0.19

Whole parts for both the numbers are same. Here the tenth part of 0.19 is greater than that of 0.099

∴ 0.099 < 0.19

Exercise – 8.4

1. **Express as rupees using decimals.**

(a) 5 paise

(b) 75 paise

(d) 50 rupees 90 paise

Solutions:

We know that there are 100 paise in 1 rupees

(a) 5 paise = 5 / 100 rupees

= Rupess 0.05

(b) 75 paise = 75 / 100 rupees

= Rupees 0.75

(d) 50 rupees 90 paise = [(50 + 90 / 100)] rupees

= Rupees 50.90

2. Express as metres using decimals.

(a) 15 cm

(b) 6 cm

(c) 2 m 45 cm

Solution:

We know that there are 100 cm in 1 metre

(a) 15 cm = 15 / 100 m

= 0.15 m

(b) 6 cm = 6 / 100 m

= 0.06 m

(c) 2 m 45 cm = [(2 + 45 / 100)] m

= 2.45 m

3. Express as cm using decimals.

(b) 60 mm

(c) 164 mm

(d) 9 cm 8 mm

Solution:

(b) 60 mm = 60 / 10 cm

= 6.0 cm

(c) 164 mm = 164 / 10 cm

= 16.4 cm

(d) 9 cm 8 mm = [(9 + 8 / 10)] cm

= 9.8 cm

4. Express as km using decimals.

(a) 8 m

(b) 88 m

(c) 8888 m

Solutions:

We know that there are 1000 metres in 1 km

(a) 8 m = 8 / 1000 km

= 0.008 km

(b) 88 m = 88 / 1000 km

= 0.088 km

(c) 8888 m = 8888 / 1000 km

= 8.888 km

5. Express as kg using decimals.
(c) 3750 g
(d) 5 kg 8 g
(e) 26 kg 50 g
Solutions:

We know that there are 1000 grams in 1 kg
(c) 3750 g = 3750 / 1000 kg
= 3.750 kg

(d) 5 kg 8 g = [(5 + 8 / 1000)] kg
= 5.008 kg

(e) 26 kg 50 g = [(26 + 50 / 1000)] kg
= 26.050 kg

Exercise – 8.5

1. Find the sum in each of the following:
(a) Sum of 0.007 + 8.5 + 30.08

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  0.007
+ 8.500
 30.080
_________
 38.587
```

(b) Sum of 15 + 0.632 + 13.8

```
 15.000
+ 0.632
 13.800
_________
 29.432
```

(f) Sum of 280.69 + 25.2 + 38

```
  280.69
+  25.20
   38.00
_________
 343.89
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2. Rashid spent ₹ 35.75 for Maths book and ₹ 32.60 for Science book. Find the total amount spent by Rashid.
Cost of Maths book = ₹ 35.75
Cost of Science book = ₹ 32.60
Total amount spent by Rashid is

```
   35.75
+  32.60
_________
   68.35
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∴ Total amount of money spent by Rashid is ₹ 68.35

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.

Cloth of shirt = 3 m 20 cm = $3\frac{20}{100}$ m = 3.20 m

Cloth of trouser = 2 m 5 cm = $2\frac{5}{100}$ m = 2.05 m

Total length of cloth is

```
    3.20
  + 2.05
  _______
    5.25
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∴ Total length of cloth bought by Nasreen is 5.25 m

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?
Distance walked by Naresh in the morning = 2 km 35 m
= [(2 + 35 /1000)] km = 2.035 km
Distance walked by him in the evening = 1 km 7 m
= [(1 + 7 / 1000)] km = 1.007 km
Total distance walked by Naresh is

```
   2.035
+  1.007
_________
   3.042
```

∴ Total distance walked by Naresh is 3.042 km

7. Ravi purchased 5 kg 400 g rice, 2 kg 20 g sugar and 10 kg 850 g flour. Find the total weight of his purchases.
Weight of rice = 5 kg 400 g = [(5 + 400 / 1000)] kg
= 5.400 kg
Weight of sugar = 2 kg 20 g = [(2 + 20 / 1000)] kg
= 2.020 kg
Weight of flour = 10 kg 850 g = [(10 + 850 / 1000)]
= 10.850 kg
Total weight of his purchases is

```
   5.400
   2.020
+ 10.850
_________
  18.270
```

∴ Total weight of his purchases is 18.270 kg

Home Assignment:

Exercise – 8.3 Q-1. (g, h, I, j)

Q-2. Make at least three more examples and find the greater number from them.

Exercise – 8.4 Q- 1 (c, e)

Q-2 (d, e)

Q-3 (a, e)

Q- 4 (d)

Q-5 (a, b)

Exercise -- 8.5 Q -1 (c, d, e)

Q-3 and Q-6