



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

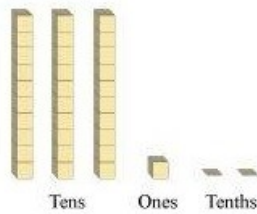
MATHS -6 (CH-08- DECIMALS)

MATHS -6 (CH-08-8.1- DECIMALS)

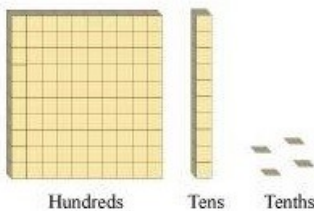
Question 1:

Write the following as numbers in the given table.

(a)



(b)



| Hundreds(100) | Tens (10) | Ones (1) | Tenths($\frac{1}{10}$) |
|---------------|--------------|-------------|--------------------------|
|---------------|--------------|-------------|--------------------------|

Answer 1:

It may be observed that

| Row | Hundreds | Tens | Ones | Tenths |
|-----|----------|------|------|--------|
| a. | 0 | 3 | 1 | 2 |
| b. | 1 | 1 | 0 | 4 |



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 2:

Write the following decimals in the place value table.

(a) 19.4 (b) 0.3

(c) 10.6 (d) 205.9

Answer 2:

| Decimal | Hundreds | Tens | Ones | Tenths |
|---------|----------|------|------|--------|
| 19.4 | 0 | 1 | 9 | 4 |
| 0.3 | 0 | 0 | 0 | 3 |
| 10.6 | 0 | 1 | 0 | 6 |
| 205.9 | 2 | 0 | 5 | 9 |

Question 3:

Write each of the following as decimals:

(a) Seven-tenths (b) Two tens and nine-tenths

(c) Fourteen point six (d) One hundred and two ones

(e) Six hundred point eight

Answer 3:

(a) Seven-tenths = $\frac{7}{10} = 0.7$

(b) Two tens and nine-tenths = $20 + \frac{9}{10} = 20.9$

(c) Fourteen point six = 14.6

(d) One hundred and two ones = $100 + 2 = 102.0$

(e) Six hundred point eight = 600.8



Question 4:

Write each of the following as decimals:

(a) $\frac{5}{10}$ (b) $3 + \frac{7}{10}$

(c) $200 + 60 + 5 + \frac{1}{10}$ (d) $70 + \frac{8}{10}$

(e) $\frac{88}{10}$ (f) $4\frac{2}{10}$

(g) $\frac{3}{2}$ (h) $\frac{2}{5}$

(i) $\frac{12}{5}$ (j) $3\frac{3}{5}$

(k) $4\frac{1}{2}$

Answer 4:

(a) $\frac{5}{10} = 0.5$

(b) $3 + \frac{7}{10} = 3 + 0.7 = 3.7$

(c) $200 + 60 + 5 + \frac{1}{10} = 265 + 0.1 = 265.1$

(d) $70 + \frac{8}{10} = 70 + 0.8 = 70.8$

(e) $\frac{88}{10} = \frac{80}{10} + \frac{8}{10} = 8 + 0.8 = 8.8$

(f) $4\frac{2}{10} = 4 + \frac{2}{10} = 4 + 0.2 = 4.2$

(g) $\frac{3}{2} = \frac{2+1}{2} = \frac{2}{2} + \frac{1}{2} = 1 + 0.5 = 1.5$

(h) $\frac{2}{5} = 0.4$

(i) $\frac{12}{5} = \frac{10+2}{5} = \frac{10}{5} + \frac{2}{5} = 2 + 0.4 = 2.4$

(j) $3\frac{3}{5} = 3 + \frac{3}{5} = 3 + 0.6 = 3.6$

(k) $4\frac{1}{2} = 4 + \frac{1}{2} = 4 + 0.5 = 4.5$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492, 7974073108)

Question 5:

Write the following decimals as fractions. Reduce the fractions to lowest form.

(a) 0.6 (b) 2.5 (c) 1.0 (d) 3.8

(e) 13.7 (f) 21.2 (g) 6.4

Answer 5:

$$(a) 0.6 = \frac{6}{10} = \frac{3}{5}$$

$$(b) 2.5 = \frac{25}{10} = \frac{5}{2}$$

$$(c) 1.0 = 1$$

$$(d) 3.8 = \frac{38}{10} = \frac{19}{5}$$

$$(e) 13.7 = \frac{137}{10}$$

$$(f) 21.2 = \frac{212}{10} = \frac{106}{5}$$

$$(g) 6.4 = \frac{64}{10} = \frac{32}{5}$$

Question 6:

Express the following as cm using decimals.

(a) 2 mm (b) 30 mm

(c) 116 mm (d) 4 cm 2 mm

(e) 162 mm (f) 83 mm

Answer 6:

It is known that 1 cm = 10 mm

$$(a) 2 \text{ mm} = \frac{2}{10} \text{ cm} = 0.2 \text{ cm}$$

$$(b) 30 \text{ mm} = \frac{30}{10} \text{ cm} = 3.0 \text{ cm}$$

$$(c) 116 \text{ mm} = \frac{116}{10} \text{ cm} = 11.6 \text{ cm}$$

$$(d) 4 \text{ cm } 2 \text{ mm} = \left(4 + \frac{2}{10} \right) \text{ cm} = 4.2 \text{ cm}$$

$$(e) 162 \text{ mm} = \frac{162}{10} \text{ cm} = 16.2 \text{ cm}$$

$$(f) 83 \text{ mm} = \frac{83}{10} \text{ cm} = 8.3 \text{ cm}$$



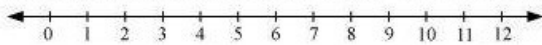
DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 7:

Between which two whole numbers on the number line are the given numbers lie? Which of these whole numbers is nearer the number?



- (a) 0.8 (b) 5.1
(c) 2.6 (d) 6.4
(e) 9.1 (f) 4.9

Answer 7:

- (a) 0.8 lies between 0 and 1, and is nearer to 1.
(b) 5.1 lies between 5 and 6, and is nearer to 5.
(c) 2.6 lies between 2 and 3, and is nearer to 3.
(d) 6.4 lies between 6 and 7, and is nearer to 6.
(e) 9.1 lies between 9 and 10, and is nearer to 9.
(f) 4.9 lies between 4 and 5, and is nearer to 5.

Question 8:

Show the following numbers on the number line.

- (a) 0.2 (b) 1.9
(c) 1.1 (d) 2.5

Answer 8:

(a) 0.2 represents a point between 0 and 1 on number line, such that the space between 0 and 1 is divided into 10 equal parts. Hence, each equal part will be equal to one-tenth. Now, 0.2 is the second point between 0 and 1.



(b) 1.9 represents a point between 1 and 2 on number line, such that the space between 1 and 2 is divided into 10 equal parts. Hence, each equal part will be equal to one-tenth. Now, 1.9 is the ninth point between 1 and 2.



(c) 1.1 represents a point between 1 and 2 on number line, such that the space between 1 and 2 is divided into 10 equal parts. Hence, each equal part will be equal to one-tenth. Now, 1.1 is the first point between 1 and 2.



(d) 2.5 represents a point between 2 and 3 on number line, such that the space between 2 and 3 is divided into 10 equal parts. Hence, each equal part will be equal to one-tenth. Now, 2.5 is the fifth point between 2 and 3.



Question 9:

Write the decimal number represented by the points A, B, C, D on the given number line?



Answer 9:

Point A represents 0.8.

Point B represents 1.3.

Point C represents 2.2.

Point D represents 2.9.



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 10:

- (a) The length of Ramesh's notebook is 9 cm 5 mm. What will be its length in cm?
 (b) The length of a young gram plant is 65 mm. Express its length in cm.

Answer 10:

- (a) The length of Ramesh's notebook is 9 cm 5 mm.

Therefore, the length in cm is $\left(9 + \frac{5}{10}\right)$ cm = 9.5 cm

- (b) The length of a gram plant is 65 mm.

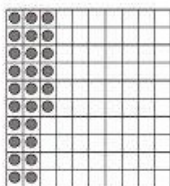
Therefore, the length in cm is $\frac{65}{10} = 6.5$ cm

MATHS -6 (CH-08-8.2- DECIMALS)

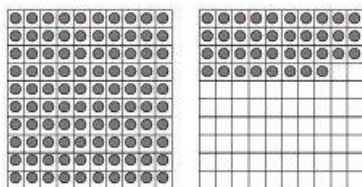
Question 1:

Complete the table with the help of these boxes and use decimals to write the number.

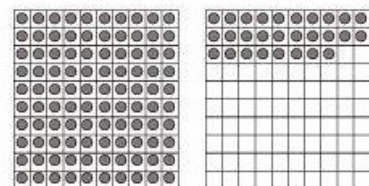
(a)



(b)



(c)



| | Ones | Tenths | Hundredths | Number |
|-----|------|--------|------------|--------|
| (a) | - | - | - | - |
| (b) | - | - | - | - |
| (c) | - | - | - | - |

Answer 1:

| Row | Ones | Tenths | Hundredths | Numbers |
|-----|------|--------|------------|---------|
| (a) | 0 | 2 | 6 | 0.26 |
| (b) | 1 | 3 | 8 | 1.38 |
| (c) | 1 | 2 | 8 | 1.28 |

Question 2:

Write the numbers given in the following place value table in decimal form.

| | Hundreds 100 | Tens 10 | Ones 1 | Tenths $\frac{1}{10}$ | Hundredths $\left(\frac{1}{100}\right)$ | Thousandths $\frac{1}{1000}$ |
|-----|-----------------|------------|-----------|--------------------------|--|---------------------------------|
| (a) | 0 | 0 | 3 | 2 | 5 | 0 |
| (b) | 1 | 0 | 2 | 6 | 3 | 0 |
| (c) | 0 | 3 | 0 | 0 | 2 | 5 |
| (d) | 2 | 1 | 1 | 9 | 0 | 2 |
| (e) | 0 | 1 | 2 | 2 | 4 | 1 |

Answer 2:

$$(a) 3 + \frac{2}{10} + \frac{5}{100} = 3 + 0.2 + 0.05 = 3.25$$

$$(b) 100 + 2 + \frac{6}{10} + \frac{3}{100} = 102 + 0.6 + 0.03 = 102.63$$

$$(c) 30 + \frac{2}{100} + \frac{5}{1000} = 30 + 0.02 + 0.005 = 30.025$$

$$(d) 200 + 10 + 1 + \frac{9}{10} + \frac{2}{1000} = 211 + 0.9 + 0.002 = 211.902$$

$$(e) 10 + 2 + \frac{2}{10} + \frac{4}{100} + \frac{1}{1000} = 12 + 0.2 + 0.04 + 0.001 = 12.241$$

Question 3:

Write the following decimals in the place value table.

(a) 0.29 (b) 2.08 (c) 19.60 (d) 148.32

(e) 200.812

Answer 3:

$$(a) 0.29 = 0.2 + 0.09 = \frac{2}{10} + \frac{9}{100}$$

$$(b) 2.08 = 2 + 0.08 = 2 + \frac{8}{100}$$

$$(c) 19.60 = 19 + 0.60 = 10 + 9 + \frac{6}{10}$$

$$(d) 148.32 = 148 + 0.3 + 0.02 = 100 + 40 + 8 + \frac{3}{10} + \frac{2}{100}$$

$$(e) 200.812 = 200 + 0.8 + 0.01 + 0.002 = 200 + \frac{8}{10} + \frac{1}{100} + \frac{2}{1000}$$

| Row | Hundreds | Tens | Ones | Tenths | Hundredths | Thousandths |
|-----|----------|------|------|--------|------------|-------------|
| (a) | 0 | 0 | 0 | 2 | 9 | 0 |
| (b) | 0 | 0 | 2 | 0 | 8 | 0 |
| (c) | 0 | 1 | 9 | 6 | 0 | 0 |
| (d) | 1 | 4 | 8 | 3 | 2 | 0 |
| (e) | 2 | 0 | 0 | 8 | 1 | 2 |

Question 4:

Write each of the following decimals.

$$(a) 20 + 9 + \frac{4}{10} + \frac{1}{100} \quad (b) 137 + \frac{5}{100}$$

$$(c) \frac{7}{10} + \frac{6}{100} + \frac{4}{1000} \quad (d) 23 + \frac{2}{10} + \frac{6}{1000}$$

$$(e) 700 + 20 + 5 + \frac{9}{100}$$

Answer 4:

$$(a) 20 + 9 + \frac{4}{10} + \frac{1}{100} = 29 + 0.4 + 0.01 = 29.41$$

$$(b) 137 + \frac{5}{100} = 137 + 0.05 = 137.05$$

$$(c) \frac{7}{10} + \frac{6}{100} + \frac{4}{1000} = 0.7 + 0.06 + 0.004 = 0.764$$

$$(d) 23 + \frac{2}{10} + \frac{6}{1000} = 23 + 0.2 + 0.006 = 23.206$$

$$(e) 700 + 20 + 5 + \frac{9}{100} = 725 + 0.09 = 725.09$$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 5:

Write each of the following decimals in words.

- (a) 0.03 (b) 1.20
(c) 108.56 (d) 10.07
(e) 0.032 (f) 5.008

Answer 5:

- (a) 0.03 = zero point zero three
(b) 1.20 = one point two zero
(c) 108.56 = one hundred eight point five six
(d) 10.07 = ten point zero seven
(e) 0.032 = zero point zero three two
(f) 5.008 = five point zero zero eight

Question 6:

Between which two numbers in tenths place on the number line does each of the given number lie?

- (a) 0.06 (b) 0.45
(c) 0.19 (d) 0.66
(e) 0.92 (f) 0.57

Answer 6:

- (a) 0.06 → 0 and 0.1
(b) 0.45 → 0.4 and 0.5
(c) 0.19 → 0.1 and 0.2
(d) 0.66 → 0.6 and 0.7
(e) 0.92 → 0.9 and 1.0
(f) 0.57 → 0.5 and 0.6



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 7:

Write as fractions in lowest terms.

- (a) 0.60 (b) 0.05
(c) 0.75 (d) 0.18
(e) 0.25 (f) 0.125
(g) 0.066

Answer 7:

- (a) $0.60 = \frac{60}{100} = \frac{6}{10} = \frac{3}{5}$
(b) $0.05 = \frac{5}{100} = \frac{1}{20}$
(c) $0.75 = \frac{75}{100} = \frac{3}{4}$
(d) $0.18 = \frac{18}{100} = \frac{9}{50}$
(e) $0.25 = \frac{25}{100} = \frac{1}{4}$
(f) $0.125 = \frac{125}{1000} = \frac{1}{8}$
(g) $0.066 = \frac{66}{1000} = \frac{33}{500}$

MATHS -6 (CH-08-8.3- DECIMALS)

Question 1:

Which is greater?

- (a) 0.3 or 0.4 (b) 0.07 or 0.02
(c) 3 or 0.8 (d) 0.5 or 0.05
(e) 1.23 or 1.2 (f) 0.099 or 0.19
(g) 1.5 or 1.50 (h) 1.431 or 1.490
(i) 3.3 or 3.300 (j) 5.64 or 5.603



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Answer 1:

(a) 0.3 or 0.4

The whole parts of these numbers are same. It can be seen that the tenth part of 0.4 is greater than that of 0.3.

Hence, $0.4 > 0.3$

(b) 0.07 and 0.02

Here, both numbers have same parts up to the tenth place. However, the hundredth part of 0.07 is greater than that of 0.02.

Hence, $0.07 > 0.02$

(c) 3 or 0.8

It can be seen that the whole part of 3 is greater than that of 0.8.

Hence, $3 > 0.8$

(d) 0.5 or 0.05

The whole parts of these numbers are same. It can be seen that the tenth part of 0.5 is greater than that of 0.05.

Hence, $0.5 > 0.05$

(e) 1.23 or 1.20

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

Hence, $1.23 > 1.20$

(f) 0.099 or 0.19

The whole parts of these numbers are same. It can be seen that the tenth part of 0.19 is greater than that of 0.099.

Hence, $0.099 < 0.19$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492, 7974073108)

(g) 1.5 or 1.50

Here, both numbers have the same parts up to the tenth place. Also, there is no digit at hundredth place of 1.5. This implies that this digit will be 0, which is same as the digit at the hundredth place of 1.50. Therefore, both these numbers are equal.

(h) 1.431 or 1.490

Here, both numbers have the same parts up to the tenth place. However, the hundredth part of 1.490 is greater than that of 1.431.

Hence, $1.431 < 1.490$

(i) 3.3 or 3.300

Here, both numbers have the same parts up to the tenth place. Also, there is no digit at hundredth and thousandth place of 3.3. This implies that these digits are 0, which are the same as the digits at the hundredth and thousandth place of 3.300. Therefore, both these numbers are equal.

(j) 5.64 or 5.603

Here, both numbers have the same parts up to the tenth place. However, the hundredth part of 5.64 is greater than that of 5.603.

Hence, $5.640 > 5.603$

MATHS -6 (CH-08-8.4- DECIMALS)

Question 1:

Express as rupees using decimals.

- (a) 5 paise (b) 75 paise
(c) 20 paise (d) 50 rupees 90 paise
(e) 725 paise

Answer 1:

It is known that there are 100 paise in 1 rupee.

- (a) $5 \text{ paise} = \frac{5}{100} \text{ rupees} = \text{Re } 0.05$
(b) $75 \text{ paise} = \frac{75}{100} \text{ rupees} = \text{Re } 0.75$
(c) $20 \text{ paise} = \frac{20}{100} \text{ rupees} = \text{Re } 0.20$
(d) $50 \text{ rupees } 90 \text{ paise} = \left(50 + \frac{90}{100} \right) \text{ rupees} = \text{Rs } 50.90$
(e) $725 \text{ paise} = \frac{725}{100} \text{ rupees} = \text{Rs } 7.25$



Question 2:

Express as metres using decimals.

- (a) 15 cm (b) 6 cm
- (c) 2 m 45 cm (d) 9 m 7 cm
- (e) 419 cm

Answer 2:

It is known that there are 100 cm in 1 metre.

- (a) $15 \text{ cm} = \frac{15}{100} \text{ m} = 0.15 \text{ m}$
- (b) $6 \text{ cm} = \frac{6}{100} \text{ m} = 0.06 \text{ m}$
- (c) $2 \text{ m } 45 \text{ cm} = \left(2 + \frac{45}{100}\right) \text{ m} = 2.45 \text{ m}$
- (d) $9 \text{ m } 7 \text{ cm} = \left(9 + \frac{7}{100}\right) \text{ m} = 9.07 \text{ m}$
- (e) $419 \text{ cm} = \frac{419}{100} \text{ m} = 4.19 \text{ m}$

Question 3:

Express as cm using decimals.

- (a) 5 mm (b) 60 mm
- (c) 164 mm (d) 9 cm 8 mm
- (e) 93 mm

Answer 3:

It is known that there are 10 mm in 1 cm.

- (a) $5 \text{ mm} = \frac{5}{10} \text{ cm} = 0.5 \text{ cm}$
- (b) $60 \text{ mm} = \frac{60}{10} \text{ cm} = 6.0 \text{ cm}$
- (c) $164 \text{ mm} = \frac{164}{10} \text{ cm} = 16.4 \text{ cm}$
- (d) $9 \text{ cm } 8 \text{ mm} = \left(9 + \frac{8}{10}\right) \text{ cm} = 9.8 \text{ cm}$
- (e) $93 \text{ mm} = \frac{93}{10} \text{ cm} = 9.3 \text{ cm}$



Question 4:

Express as km using decimals.

- (a) 8 m (b) 88 m
(c) 8888 m (d) 70 km 5 m

Answer 4:

It is known that there are 1000 metres in 1 km.

- (a) $8 \text{ m} = \frac{8}{1000} \text{ km} = 0.008 \text{ km}$
(b) $88 \text{ m} = \frac{88}{1000} \text{ km} = 0.088 \text{ km}$
(c) $8888 \text{ m} = \frac{8888}{1000} \text{ km} = 8.888 \text{ km}$
(d) $70 \text{ km } 5 \text{ m} = \left(70 + \frac{5}{1000}\right) \text{ km} = 70.005 \text{ km}$

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

Answer 5:

It is known that there are 1000 grams in 1 kg.

- (a) $2 \text{ g} = \frac{2}{1000} \text{ kg} = 0.002 \text{ kg}$
(b) $100 \text{ g} = \frac{100}{1000} \text{ kg} = 0.1 \text{ kg}$
(c) $3750 \text{ g} = \frac{3750}{1000} \text{ kg} = 3.750 \text{ kg}$
(d) $5 \text{ kg } 8 \text{ g} = \left(5 + \frac{8}{1000}\right) \text{ kg} = 5.008 \text{ kg}$
(e) $26 \text{ kg } 50 \text{ g} = \left(26 + \frac{50}{1000}\right) \text{ kg} = 26.050 \text{ kg}$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

MATHS -6 (CH-08-8.5- DECIMALS)

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) $280.69 + 25.2 + 38$

Answer 1:

(a) $0.007 + 8.5 + 30.08$

$$\begin{array}{r} 0.007 \\ 8.500 \\ + 30.080 \\ \hline 38.587 \end{array}$$

(b) $15 + 0.632 + 13.8$

$$\begin{array}{r} 15.000 \\ 0.632 \\ + 13.800 \\ \hline 29.432 \end{array}$$

(c) $27.076 + 0.55 + 0.004$

$$\begin{array}{r} 27.076 \\ 0.550 \\ + 0.004 \\ \hline 27.630 \end{array}$$

(d) $25.65 + 9.005 + 3.7$

$$\begin{array}{r} 25.650 \\ 9.005 \\ + 3.700 \\ \hline 38.355 \end{array}$$

(e) $0.75 + 10.425 + 2$

$$\begin{array}{r} 0.750 \\ 10.425 \\ + 2.000 \\ \hline 13.175 \end{array}$$

(f) $280.69 + 25.2 + 38$

$$\begin{array}{r} 280.69 \\ 25.20 \\ + 38.00 \\ \hline 343.89 \end{array}$$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 2:

Rashid spent Rs 35.75 for Maths book and Rs 32.60 for Science book. Find the total amount spent by Rashid.

Answer 2:

Price of Maths book = Rs. 35.75

Price of Science book = Rs. 32.60

Total amount spent by Rashid is

$$\begin{array}{r} 35.75 \\ + 32.60 \\ \hline 68.35 \end{array}$$

Therefore, the amount spent by Rashid is Rs 68.35.

Question 3:

Radhika's mother gave her Rs 10.50 and her father gave her Rs 15.80, find the total amount given to Radhika by the parents.

Answer 3:

Amount given by mother = Rs. 10.50

Amount given by father = Rs. 15.80

Total amount given by parents is

$$\begin{array}{r} 10.50 \\ + 15.80 \\ \hline 26.30 \end{array}$$

Therefore, the amount given by her parents is Rs 26.30.



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

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.

Answer 4:

Cloth for shirt = 3 m 20 cm

$$= \left(3 + \frac{20}{100} \right) \text{ m} = 3.20 \text{ m}$$

Cloth for trouser = 2 m 5 cm

$$= \left(2 + \frac{5}{100} \right) \text{ m} = 2.05 \text{ m}$$

Total length of cloth is

$$\begin{array}{r} 3.20 \\ + 2.05 \\ \hline 5.25 \end{array}$$

Hence, the total length of cloth bought by her is 5.25 m.

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?

Answer 5:

Distance walked in the morning = 2 km 35 m

$$= \left(2 + \frac{35}{1000} \right) \text{ km}$$

$$= 2.035 \text{ km}$$

Distance walked in the evening = 1 km 7 m

$$= \left(1 + \frac{7}{1000} \right) \text{ km}$$

$$= 1.007 \text{ km}$$

Total distance walked by him is

$$\begin{array}{r} 2.035 \\ + 1.007 \\ \hline 3.042 \end{array} \text{ km}$$

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?

Answer 6:

Distance travelled by bus = 15 km 268 m

$$= \left(15 + \frac{268}{1000} \right) \text{ km}$$

$$= 15.268 \text{ km}$$

Distance travelled by car = 7 km 7 m

$$= \left(7 + \frac{7}{1000} \right) \text{ km}$$

$$= 7.007 \text{ km}$$

Distance travelled on foot = 500 m

$$= \frac{500}{1000} \text{ km}$$

$$= 0.500 \text{ km}$$

Total distance of school from her residence is

15.268

7.007

+0.500

22.775 km

Question 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.

Answer 7:

$$\text{Weight of rice} = 5 \text{ kg } 400 \text{ g} = \left(5 + \frac{400}{1000} \right) \text{ kg} = 5.400 \text{ kg}$$

$$\text{Weight of sugar} = 2 \text{ kg } 20 \text{ g} = \left(2 + \frac{20}{1000} \right) \text{ kg} = 2.020 \text{ kg}$$

$$\text{Weight of flour} = 10 \text{ kg } 850 \text{ g} = \left(10 + \frac{850}{1000} \right) \text{ kg} = 10.850 \text{ kg}$$

Total weight of his purchases is

5.400

2.020

+10.850

18.270 km



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492, 7974073108)

MATHS -6 (CH-08-8.6- DECIMALS)

Question 1:

Subtract:

- (a) Rs 18.25 from Rs 20.75
- (b) 202.54 m from 250 m
- (c) Rs 5.36 from Rs 8.40
- (d) 2.051 km from 5.206 km
- (e) 0.314 kg from 2.107 kg

Answer 1:

- (a) Rs 20.75 - Rs 18.25

$$\begin{array}{r} 20.75 \\ -18.25 \\ \hline 2.50 \end{array}$$

- (b) 250 m - 202.54 m

$$\begin{array}{r} 250.00 \\ -202.54 \\ \hline 47.46 \end{array}$$

- (c) Rs 8.40 - Rs 5.36

$$\begin{array}{r} 8.40 \\ -5.36 \\ \hline 3.04 \end{array}$$

- (d) 5.206 km - 2.051 km

$$\begin{array}{r} 5.206 \\ -2.051 \\ \hline 3.155 \end{array}$$

- (e) 2.107 kg - 0.314 kg

$$\begin{array}{r} 2.107 \\ -0.314 \\ \hline 1.793 \end{array}$$

Question 2:

Find the value of:

- (a) $9.756 - 6.28$
- (b) $21.05 - 15.27$
- (c) $18.5 - 6.79$
- (d) $11.6 - 9.847$



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Answer 2:

$$\begin{array}{r} (a) \\ 9.756 \\ - 6.280 \\ \hline 3.476 \end{array}$$

$$\begin{array}{r} (b) \\ 21.05 \\ - 15.27 \\ \hline 5.78 \end{array}$$

$$\begin{array}{r} (c) \\ 18.50 \\ - 6.79 \\ \hline 11.71 \end{array}$$

$$\begin{array}{r} (d) \\ 11.600 \\ - 9.847 \\ \hline 1.753 \end{array}$$

Question 3:

Raju bought a book for Rs 35.65. He gave Rs 50 to the shopkeeper. How much money did he get back from the shopkeeper?

Answer 3:

Money given to shopkeeper = Rs 50.00

Cost of book = Rs 35.65

Money that Raju will get back will be the difference of these two.

Hence, money that Raju will get back is

$$\begin{array}{r} 50.00 \\ - 35.65 \\ \hline 14.35 \end{array}$$

Therefore, he will get back Rs 14.35.



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

Question 4:

Rani had Rs 18.50. She bought one ice-cream for Rs 11.75. How much money does she have now?

Answer 4:

Money with Rani = Rs 18.50

Money spent for an ice cream = Rs 11.75

The money left with Rani will be the difference of these two.

Hence, the money left is

$$\begin{array}{r} 18.50 \\ -11.75 \\ \hline 6.75 \end{array}$$

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?

Answer 5:

Length of cloth = 20 m 5 cm = 20.05 m

Length of cloth cut so as to make a curtain = 4 m 50 cm = 4.50 m

The length of the cloth left with her will be the difference of these two.

Hence, the length of the cloth left with her is

$$\begin{array}{r} 20.05 \\ - 4.50 \\ \hline 15.55 \end{array}$$

Therefore, 15.55 m cloth will be remaining.



DPM CLASSES & COMPUTERS

Special for Math's & Science

By - Er. Dharmendra Sir (9584873492,7974073108)

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?

Answer 6:

Total distance travelled by Namita = 20 km 50 m = 20.050 km

Distance travelled by bus = 10 km 200 m = 10.200 km

Distance travelled by auto = Total distance travelled – Distance travelled by bus

Hence, the distance travelled by auto is

$$\begin{array}{r} 20.050 \\ -10.200 \\ \hline 9.850 \end{array}$$

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?

Answer 7:

Total weight of vegetables bought = 10.000 kg

Weight of onions = 3 kg 500 g = 3.500 kg

Weight of tomatoes = 2 kg 75 g = 2.075 kg

Weight of potatoes = Total weight of vegetables bought – (Weight of onions + Weight of tomatoes)

= 10.000 – (3.500 + 2.075)

$$\begin{array}{r} 3.500 \\ +2.075 \\ \hline 5.575 \\ 10.000 \\ -5.575 \\ \hline 4.425 \end{array}$$

Hence, the weight of the potatoes was 4.425 kg.