RS Aggarwal Solutions for Class 6 Maths Chapter 7–Decimals

Class 6 - Chapter 7 Decimals

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RS Aggarwal Solutions for Class 6 Maths Chapter 7–Decimals

Class 6: Maths Chapter 7 solutions. Complete Class 6 Maths Chapter 7 Notes.

RS Aggarwal Solutions for Class 6 Maths Chapter 7–Decimals

RS Aggarwal 6th Maths Chapter 7, Class 6 Maths Chapter 7 solutions

Ex 7A Solutions

Question 1.

Solution:

(i)Fifty eight point six three = 58.63

(ii)One hundred twenty four point four two five = 124.425

(iii)Seven point seven six = 7.76

(iv)Nineteen point eight = 19.8

(v)Four hundred four point zero four four = 404.044

(vi)Point one seven three = 173

(v)Point zero one five = .015 Ans.

Question 2.

Solution:

(i) 14.83

Place value of 1 = 10,

Place value of 4 = 4,

Place value of $8 = \frac{8}{10}$,

Place value of $3 = \frac{3}{100}$

(*ii*) 275·269

Place value of 2 = 200,

Place value of 7 = 70,

Place value of 5 = 5,

Place value of $2 = \frac{2}{10}$,

Place value of $6 = \frac{6}{100}$,

Place value of $9 = \frac{9}{1000}$

(*iii*) 46·075

Place value of 4 = 40,

Place value of 6 = 6,

Place value of 0 = 0,

Place value of $7 = \frac{7}{100}$,

Place value of $5 = \frac{5}{1000}$

(*iv*) 302·459

Place value of 3 = 300,

Place value of 0 = 0,

Place value of 2 = 2,

Place value of $4 = \frac{4}{10}$

Place value of $5 = \frac{5}{100}$

Place value of $9 = \frac{9}{1000}$

(v) 5370·34

Place value of 5 = 5000,

Place value of 3 = 300,

Place value of 7 = 70,

Place value of 0 = 0,

Place value of $3 = \frac{3}{10}$,

Place value of $4 = \frac{4}{100}$

(vi) 186·209

Place value of 1 = 100,

Place value of 8 = 80,

Place value of 6 = 6,

Place value of $2 = \frac{2}{10}$,

Place value of 0 = 0,

Place value of $9 = \frac{9}{1000}$

Question 3.

Solution:

(i) 67.83 = (6 x 10) + (7 x 1)

$$+\left(8\times\frac{1}{10}\right)+\left(3\times\frac{1}{100}\right)$$

(*ii*) $283{\cdot}61 = (2\times100)+(8\times10)+(3\times1)$

$$+\left(6\times\frac{1}{10}\right)+\left(1\times\frac{1}{100}\right)$$

(*iii*) $24{\cdot}675 = (2\times10)+(4\times1)$

$$+\left(6\times\frac{1}{10}\right)+\left(7\times\frac{1}{100}\right)+\left(5\times\frac{1}{1000}\right)$$

(*iv*) $0{\cdot}294 =$

$$\left(2\times\frac{1}{10}\right)+\left(9\times\frac{1}{100}\right)+\left(4\times\frac{1}{1000}\right)$$

(*v*) $8{\cdot}006 = (8\times1)+\left(6\times\frac{1}{1000}\right)$

(*vi*) $4615{\cdot}72 = (4\times1000)+(6\times100)$

$$+(1\times10)+(5\times1)$$

$$+\left(7\times\frac{1}{10}\right)+\left(2\times\frac{1}{100}\right)$$ **Ans.**

Question 4.

Solution:

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(i) $40 + 6 + \frac{7}{10} + \frac{9}{100} = 46{\cdot}79$

(ii) $500 + 70 + 8 + \frac{3}{10} + \frac{1}{100} + \frac{6}{1000}$
$= 578{\cdot}316$

(iii) $700 + 30 + 1 + \frac{8}{10} + \frac{4}{100} = 731{\cdot}84$

(iv) $600 + 5 + \frac{7}{100} + \frac{9}{1000} = 605{\cdot}079$

(v) $800 + 5 + \frac{8}{10} + \frac{6}{1000} = 805{\cdot}806$

(vi) $30 + 9 + \frac{4}{100} + \frac{8}{1000} = 39{\cdot}048$ **Ans.**

Question 5.

Solution:

(i) 7.5, 64.23, 0.074 = 7.500, 64.230, 0.074

(Here, at the most 0.074 has 3 places)

(ii) 0.6, 5.937, 2.36, 4.2 = 0.600, 5.937, 2.360, 4.200

(Here, 5.937 has at most 3 places)

(iii) 1.6, 0.07, 3.58, 2.9 = 1.60, 0.07, 3.58, 2. 90

(Here, at the most are two places)

(iv) 2.5. 0.63, 14.08, 1.637 = 2.500, 0.630. 14.080, 1.637 Ans.

(Here, at the most are three places)

Question 6.

Solution:

Making like decimals where ever it is necessary,

(i) 84·23 ☐ 76·35 ⇒ 84·23 > 76·35

(ii) 7·608 ☐ 7·68 ⇒ 7·608 ☐ 7·680

⇒ 7·608 < 7·680

(iii) 8·34 ☐ 8·43 ⇒ 8·34 < 8·43

(iv) 12·06 ☐ 12·006

⇒ 12·060 ☐ 12·006

⇒ 12·06 > 12·006

(v) 3·85 ☐ 3·805 ⇒ 3·850 ☐ 3·805

⇒ 3·850 > 3·805

(vi) 0·97 ☐ 1·07 ⇒ 0·97 < 1·07 **Ans.**

Question 7.

Solution:

First of all making them in like decimals,

(i) 5.8, 7.2, 5.69, 7.14, 5.06

=> 5.80, 7.20, 5.69, 7.14, 5.06

Arranging in ascending order,

5:06 <5.69 <5.80 <7.14 <7.20

=> 5.06 < 5.69 < 5.8 < 7.14 < 7.2 Ans.

(ii) 0.6, 6.6, 6.06, 66.6, 0.06

=>0.60, 6.60, 6.06, 66.60, 0.06

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Arranging in ascending order,

0.06 < 0.60 < 6.06 < 6.60 < 66.60

=> 0.06 < 0.6 < 6.06 < 6.6 < 66.6 Ans.

(iii) 6.54, 6.45, 6.4, 6.5, 6.05

=> 6.54, 6.45, 6.4, 6.5, 6.05

Arranging in ascending order,

6. 05 < 6.40 < 6.45 < 6.50 < 6.54

=> 6.05 < 6.4 < 6.45 < 6.5 < 6.54 Ans.

(iv) 3.3,3.303, 3.033, 0.33, 3.003

=> 3.300, 3.303, 3.033, 0.330, 3.003

Arranging in descending order,

0.330 < 3.003 < 3.033 < 3.300 < 3.303

=> 0.33 < 3.003 < 3.033 < 3.3 < 3.303 Ans.

Question 8.

Solution:

Making them in like decimals and them comparing

(i) 7.3, 8.73, 73.03, 7.33, 8.073

=> 7.300, 8.730, 73.030, 7.330, 8.073

Arranging in descending order

73.030 > 8.730 > 8.073 > 7.330 > 7.300

=> 73.03 > 8.73 > 8.073 > 7.33 > 7.3 Ans.

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(ii) 3.3, 3.03, 30.3, 30.03, 3.003

=> 3.300, 3.030, 30.300, 30.030, 3.003

Arranging in descending order

30.300> 30.030 >3.300 >3.030 > 3.003

=> 30.3 > 30.03 > 3.3 > 3.03 > 3.003 Ans.

(iii) 2.7, 7.2, 2.27, 2.72, 2.02, 2.007

=> 2.700, 7.200, 2.270, 2.720, 2.020, 2.007

Arranging in descending order

7. 200 > 2.720 > 2.700 > 2.270 > 2.020 > 2.007

=> 7.2 > 2.72 > 2.7 > 2.27 > 2.02 > 2.007 Ans.

(iv) 8.88, 8.088, 88.8, 88.08, ,8.008

=> 8.880, 8.088, 88.800, 88.080, 8.008

Arranging in descending order,

88.800 > 88.080 > 8.880 > 8.088 > 8.008

=> 88.8 > 88.08 > 8.88 > 8.088 > 8.008

Ex 7B Solutions

Convert each of the following into a fraction in its simplest form :

Question 1.

Solution:

.9 = 910

Question 2.

Solution:

0.6

= 610

= 6÷210÷2

= 35

(Dividing by 2, the HCF of 6, 10)

Question 3.

Solution:

.08

= 8100

= 8÷4100÷4

= 225

(Dividing by 4, the HCF of 7, 100)

Question 4.

Solution:

0.15

= 15100

= 15÷5100÷5

= 320

(Dividing by 5, the HCF of 15, 100)

Question 5.

Solution:

0.48

= 48100

= 48÷4100÷4

= 1225

(Dividing by 4, the HCF of 48, 100)

Question 6.

Solution:

0.53

= 531000

Question 7.

Solution:

= 1251000

= 125÷1251000÷125

= 18

(Dividing by 125, the HCF of 125, 1000)

Question 8.

Solution:

.224

= 2241000

= 224÷81000÷8

= 28125

(Dividing by 8, the HCF of 224, 1000)

Convert each of the following as a mixed fraction

Question 9.

Solution:

6.4

= 6410

= 64÷210÷2

= 326

= 625

(Dividing by 2, the HCF of 64, 10)

Question 10.

Solution:

16.5

= 16510

= 165÷510÷5

= 332

= 1612

(Dividing by 5, the HCF of 165, 10)

Question 11.

Solution:

8.36

= 836100

= 836÷4100÷4

= 20925

= 8925

(Dividing by 4, the HCF of 836, 100)

Question 12.

Solution:

4.275

= 42751000

= 4275÷251000÷25

= 17140

= 41140

(Dividing by 25)

Question 13.

Solution:

25.06

= 2506100

= 2506÷2100÷2

= 125350

= 25350

(Dividing by 2)

Question 14.

Solution:

7.004

= 70041000

= 7004÷41000÷4

= 1751250

= 71250

(Dividing by 4)

Question 15.

Solution:

2.052

= 20521000

= 2052÷41000÷4

= 513250

= 213250

(Dividing by 4)

Question 16.

Solution:

3.108

= 31081000

= 3108÷41000÷4

= 777250

= 327250

(Dividing by 4)

Question 17.

Solution:

2310

= 2.3

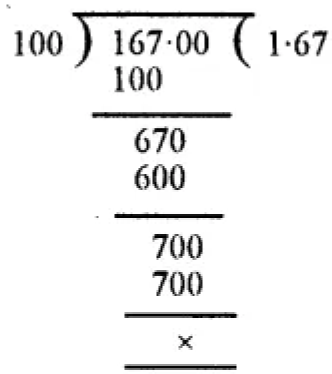
$$
\begin{array}{r}
2{\cdot}3 \\
10\overline{)\,23{\cdot}0\,(} \\
\underline{20} \\
30 \\
\underline{30} \\
\times
\end{array}
$$

Question 18.

Solution:

167100

= 1.67

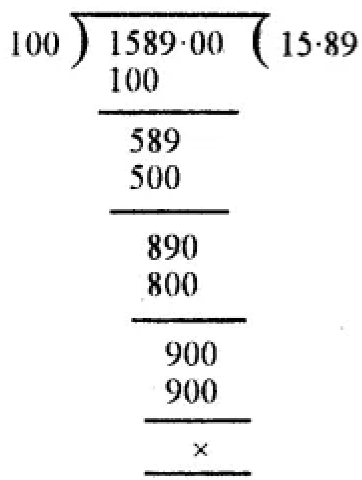


Question 19.

Solution:

1589100

= 15.89



Question 20.

Solution:

54131000

= 5.413

$$
\begin{array}{r|l}
1000 & 5413{\cdot}000 \;\big(\; 5{\cdot}413 \\
 & 5000 \\
\hline
 & 4130 \\
 & 4000 \\
\hline
 & 1300 \\
 & 1000 \\
\hline
 & 3000 \\
 & 3000 \\
\hline
 & \times \\
\hline
\end{array}
$$

Question 21.

Solution:

214151000

= 21.415

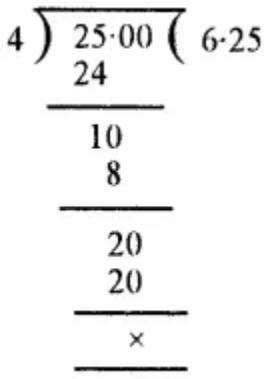
$$
\begin{array}{r|l}
1000 & 21415{\cdot}000 \;\big(\; 21{\cdot}415 \\
 & 2000 \\
\hline
 & 1415 \\
 & 1000 \\
\hline
 & 4150 \\
 & 4000 \\
\hline
 & 1500 \\
 & 1000 \\
\hline
 & 5000 \\
 & 5000 \\
\hline
 & \times \\
\hline
\end{array}
$$

Question 22.

Solution:

254

= 6.25



Question 23.

Solution:

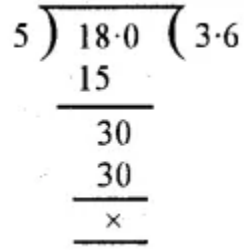
335

= 3×5+35

= 15+35

= 185

= 3.6



Question 24.

Solution:

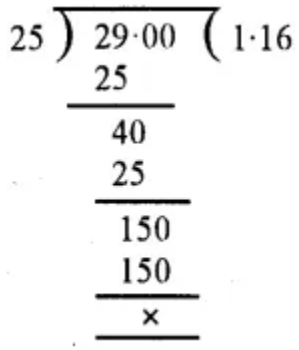
1425

= 1×25+425

= 25+425

= 2925

= 1.16



Question 25.

Solution:

51750

= 5×50+1750

= 250+1750

= 26750

= 5.34

```
50 ) 267·00 ( 5·34
     250
     ---
      170
      150
      ---
       200
       200
       ---
         ×
```

Question 26.

Solution:

1238

= 12×8+38

= 96+38

= 998

= 12.375

```
8 ) 99·000 ( 12·375
    8
    ---
     19
     16
     ---
      30
      24
      ---
       60
       56
       ---
        40
        40
        ---
         ×
```

Question 27.

Solution:

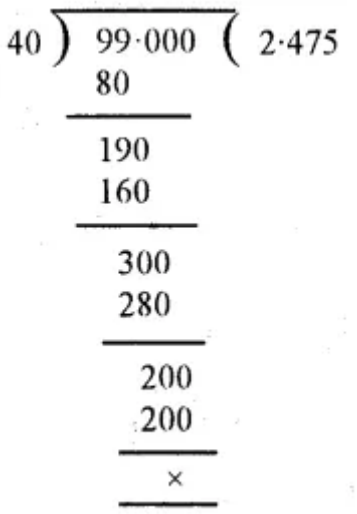
21940

= 2×40+1940

= 80+1940

= 9940

= 2.475



Question 28.

Solution:

1920

= 0.95

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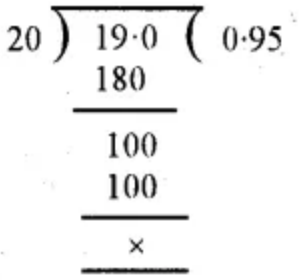
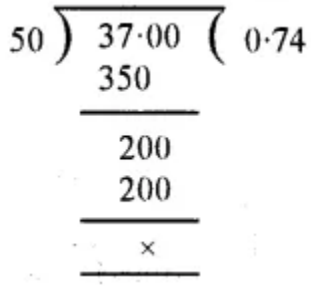


Question 29.

Solution:

3750

= 0.74

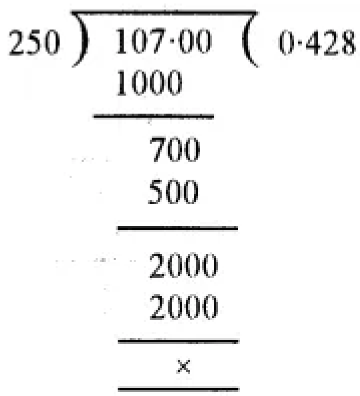


Question 30.

Solution:

107250

= 0.428

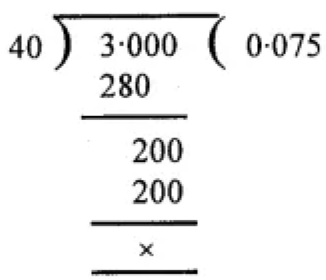


Question 31.

Solution:

340

= 0.075



Question 32.

Solution:

78

= 0.875

$$
\begin{array}{r|l}
8 & 7{\cdot}000 \\
 & 64 \\
\hline
 & 60 \\
 & 56 \\
\hline
 & 40 \\
 & 40 \\
\hline
 & \times \\
\hline
\end{array}
\quad 0{\cdot}875
$$

Question 33.

Solution:

(i) 8 kg 640 g in kilograms

= 86401000 kg

= 8.640kg

(ii) 9 kg 37 g in kilograms

= 9371000 kg

= 9.037 kg.

(iii) 6 kg 8 g in kilograms

= 681000 kg

= 6.008 kg Ans.

Question 34.

Solution:

(i) 4 km 365 m in kilometres

= 43651000 km

= 4.365 km

(ii) 5 km 87 m in kilometres

$$= 5\frac{87}{1000} \text{ km} = 5{\cdot}087 \text{ km}$$

(*iii*) 3 km 6 m in kilometres

$$= 3\frac{6}{1000} \text{ km} = 3{\cdot}006 \text{ km}$$

(*iv*) 270 m in kilometres

$$= \frac{270}{1000} = 0{\cdot}270 \text{ km}$$

(*v*) 35 m in kilometres

$$= \frac{35}{1000} = 0{\cdot}035 \text{ km}$$

(*vi*) 6 m in kilometres

$$= \frac{6}{1000} = 0{\cdot}006 \text{ km}$$ **Ans.**

Question 35.

Solution:

(i) 15 kg 850 g in kilograms

= 158501000 kg

= 15.850 kg

(*ii*) 8 kg 96 g in kilograms

$$= 8\frac{96}{1000} \text{ kg} = 8{\cdot}096 \text{ kg}$$

(*iii*) 540 g in kilograms

$$= \frac{540}{1000} = 0{\cdot}540 \text{ kg}$$

(*iv*) 8 g in kilograms

$$= \frac{8}{1000} = 0{\cdot}008 \text{ kg}$$ **Ans.**

Question 36.

Solution:

(i) Rs. 18 and 25 paise in rupees

= 1825100

= 18.25 rupees

(*ii*) Rs. 9 and 8 paise in rupees

$$= 9\frac{8}{100} = 9{\cdot}08 \text{ rupees}$$

(*iii*) 32 paise in rupees $= \frac{32}{100} = 0{\cdot}32$rupees

(*iv*) 5 paise in rupees $= \frac{5}{100}$

$= 0{\cdot}05$ rupees **Ans.**

Ex 7C Solutions

Add the following decimals :

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Question 1.

Solution:

9.6, 14.8, 37 and 5.9

Converting these decimals into like decimals and then adding 9.6 + 14.8 + 37.0 + 5.9

= 67.3 Ans.

Working :

Working :

$$\begin{array}{r} 9{\cdot}6 \\ 14{\cdot}8 \\ 37{\cdot}0 \\ 5{\cdot}9 \\ \hline 67{\cdot}3 \end{array}$$

Question 2.

Solution:

23.7, 106.94, 68.9 and 29.5

Converting them into like decimals and then adding

23.70 + 106.94 + 68.90 + 29.50

= 229.04 Ans.

Working :

$$\begin{array}{r} 23{\cdot}70 \\ 106{\cdot}94 \\ 68{\cdot}90 \\ 29{\cdot}50 \\ \hline 229{\cdot}04 \\ \hline \end{array}$$

Question 3.

Solution:

72.8, 7.68, 16.23 and 0.7

Converting them into like decimals and then adding

72.80 + 7.68 + 16.23 + 0.70

= 97.41 Ans.

Working :

$$\begin{array}{r} 72{\cdot}80 \\ 7{\cdot}68 \\ 16{\cdot}23 \\ 0{\cdot}70 \\ \hline 97{\cdot}41 \\ \hline \end{array}$$

Question 4.

Solution:

18.6, 84.75, 8.345 and 9.7

Converting them into like decimals and then adding

18.600 + 84.750 + 8.345 + 9.700

= 121.395 Ans.

Working :

$$\begin{array}{r} 18{\cdot}600 \\ 84{\cdot}750 \\ 8{\cdot}345 \\ 9{\cdot}700 \\ \hline 121{\cdot}395 \end{array}$$

Question 5.

Solution:

8.236, 16.064, 63.8 and 27.53

Converting them into like decimals and then adding

8.236 + 16.064 + 63.800 + 27.530

= 115.630 Ans.

Working :

$$\begin{array}{r} 8{\cdot}236 \\ 16{\cdot}064 \\ 63{\cdot}800 \\ 27{\cdot}530 \\ \hline 115{\cdot}630 \end{array}$$

Question 6.

Solution:

28.9, 19.64, 123.697 and 0.354

Converting them into like decimals and then adding

28.900 + 19.640 + 123.697 + 0.354

= 172.591 Ans.

Working :

$$\begin{array}{r} 28{\cdot}900 \\ 19{\cdot}640 \\ 123{\cdot}697 \\ 0{\cdot}354 \\ \hline 172{\cdot}591 \\ \hline \end{array}$$

Question 7.

Solution:

4.37, 9.638, 17.007 and 6.8

Converting them into like decimals and then adding

4. 370 + 9.638 + 17.007 + 6.800

= 37.815 Ans.

Working :

$$\begin{array}{r} 4{\cdot}370 \\ 9{\cdot}638 \\ 17{\cdot}007 \\ 6{\cdot}800 \\ \hline 37{\cdot}815 \\ \hline \end{array}$$

Question 8.

Solution:

14.5, 0.038, 118.573 and 6.84

Converting them into like decimals and then adding

14.500 + 0.038 + 118.573 + 6.840

= 139.951 Ans.

Working :

$$\begin{array}{r} 14{\cdot}500 \\ 0{\cdot}038 \\ 118{\cdot}573 \\ 6{\cdot}840 \\ \hline 139{\cdot}951 \\ \hline \end{array}$$

Question 9.

Solution:

Earning for the first day = 32.60 rupees

Earning for the second day = 56.80 rupees

Earning for the third day = 72 rupees

Total earning = Rs. 32.60 + Rs. 56.80 + Rs. 72

= Rs. 161.40 Ans.

Working

$$\begin{array}{r} 32{\cdot}60 \\ 56{\cdot}80 \\ 72{\cdot}00 \\ \hline 161{\cdot}40 \\ \hline \end{array}$$

Question 10.

Solution:

Cost of almirah = Rs. 11025

Cartage = Rs. 172.50

Cost on repair = Rs. 64.80

Total cost = Rs. 11025 + Rs. 172.50 + Rs. 64.80

= Rs. 11262.30 Ans.

Working :

$$\begin{array}{r} 11025.00 \\ 172.50 \\ 64.80 \\ \hline 11262.30 \\ \hline \end{array}$$

Question 11.

Solution:

Distance covered by taxi = 36 km 235 m

= 36.235 km

Distance covered by Rickshaw = 4 km 85 m

= 4.085 km

and distance covered on foot

= 1 km 80 m

= 1.080 m

Total distance covered = 36.235 km + 4.085 km + 1.080 km

= 41.400 km

= 41 km 400 m Ans.

Working :

$$\begin{array}{r} 36{\cdot}235 \\ 4{\cdot}085 \\ 1{\cdot}080 \\ \hline 41{\cdot}400 \\ \hline \end{array}$$

Question 12.

Solution:

Weight of sugar in a bag = 45 kg 80 g

= 45.080 kg

Mass (weight) of empty bag = 950 g

= 0.950 kg

Total weight of the bag with sugar = 45 kg 80 g + 950 g

= 45.080 kg + 0.950 kg

= 46.030 kg

= 46 kg 30 g Ans.

Working :

$$\begin{array}{r} 45{\cdot}080 \\ 0{\cdot}950 \\ \hline 46{\cdot}030 \\ \hline \end{array}$$

Question 13.

Solution:

Length of cloth for shirt = 2 m 70 cm

= 2.70 m

Length of cloth for pyjamas = 2 m 60 cm

= 2.60 m

Total length of cloth = 2.70 m + 2.60 m

= 5.30 m

= 5 m 30 cm Ans.

Working :

$$\begin{array}{r} 2{\cdot}70\ \text{m} \\ +\ 2{\cdot}60\ \text{m} \\ \hline 5{\cdot}30\ \text{m} \end{array}$$

Question 14.

Solution:

Cloth of salwar = 2 m 5 cm = 2.05 m

Cloth for shirt = 3 m 35 cm = 3.35 m

Total length of cloth = 2.05 m + 3.35 m

= 5.4.0 m

= 5 m 40 cm Ans.

Working :

$$\begin{array}{r} 2{\cdot}05\ \text{m} \\ +\ 3{\cdot}35\ \text{m} \\ \hline 5{\cdot}40\ \text{m} \end{array}$$

Ex 7D Solutions

Question 1.

Solution:

27.86 from 53.74

= 53.74 – 27.86

= 25.88 Ans.

Working :

$$\begin{array}{r} 53{\cdot}74 \\ -\ 27{\cdot}86 \\ \hline 25{\cdot}88 \\ \hline \end{array}$$

Question 2.

Solution:

64.98 from 103.87

103.87 – 64.98

= 38.89 Ans.

Working :

$$\begin{array}{r} 103{\cdot}87 \\ -\ 64{\cdot}98 \\ \hline 38{\cdot}89 \\ \hline \end{array}$$

Question 3.

Solution:

59.63 from 92.4

92.40 – 59.63

= 32.77 Ans.

Working :

$$\begin{array}{r} 92{\cdot}40 \\ -\ 59{\cdot}63 \\ \hline 32{\cdot}77 \\ \hline \end{array}$$

Question 4.

Solution:

56.8 from 204

204.0 – 56.8

= 147.2 Ans.

Working :

$$\begin{array}{r} 204{\cdot}0 \\ -\ \ 56{\cdot}8 \\ \hline 147{\cdot}2 \\ \hline \end{array}$$

Question 5.

Solution:

127.38 from 216.2

216.20 – 127.38

= 88.82 Ans.

Working :

$$\begin{array}{r} 216{\cdot}20 \\ -\ 127{\cdot}38 \\ \hline 88{\cdot}82 \\ \hline \end{array}$$

Question 6.

Solution:

39.875 from 70.68

70.680 – 39.875

= 30.805 Ans.

Working :

$$\begin{array}{r} 70{\cdot}680 \\ -\ 39{\cdot}875 \\ \hline 30{\cdot}805 \\ \hline \end{array}$$

Question 7.

Solution:

523.120 – 348.237

= 174.883 Ans

Working :

$$\begin{array}{r} 523{\cdot}120 \\ -\ 348{\cdot}237 \\ \hline 174{\cdot}883 \\ \hline \end{array}$$

Question 8.

Solution:

600.000 – 458.573

= 141.427 Ans.

Working :

$$\begin{array}{r} 600{\cdot}000 \\ -\ 458{\cdot}573 \\ \hline 141{\cdot}427 \end{array}$$

Question 9.

Solution:

206.321 – 149.456

= 56.865 Ans.

Working :

$$\begin{array}{r} 206{\cdot}321 \\ -\ 149{\cdot}456 \\ \hline 56{\cdot}865 \end{array}$$

Question 10.

Solution:

3.400 – 0.612

= 2.788 Ans

Working :

$$\begin{array}{r} 3{\cdot}400 \\ -\ 0{\cdot}612 \\ \hline 2{\cdot}788 \end{array}$$

Question 11.

Solution:

Converting them in like decimals

37.600 + 72.850 – 58.678 – 6.090

= (37.600 + 72.850) – (58.678 + 6.090)

= 110.450 – 64.768

= 45.682

Working :

$$\begin{array}{r} 37{\cdot}600 \\ +\ 72{\cdot}850 \\ \hline 110{\cdot}450 \end{array} \qquad \begin{array}{r} 58{\cdot}678 \\ +\ 6{\cdot}090 \\ \hline 64{\cdot}768 \end{array}$$

$$\begin{array}{r} 110{\cdot}450 \\ -\ 64{\cdot}768 \\ \hline 45{\cdot}682 \end{array}$$

Question 12.

Solution:

75.3 – 104.645 + 178.96 – 47.9

= 75.300 – 104.645 + 178.960 – 47.900

(Converting into like decimals)

= 75.300 + 178.960 – 104.645 – 47.900

= (75.300 + 178.960) – (104.645 + 47.900)

= 254.260 – 152.545

= 101.715 Ans.

Working :

$$\begin{array}{r} 75{\cdot}300 \\ +\ 178{\cdot}960 \\ \hline 254{\cdot}260 \\ \hline \end{array} \qquad \begin{array}{r} 104{\cdot}645 \\ +\ 47{\cdot}900 \\ \hline 152{\cdot}545 \\ \hline \end{array}$$

$$\begin{array}{r} 254{\cdot}260 \\ -\ 152{\cdot}545 \\ \hline 101{\cdot}715 \\ \hline \end{array}$$

Question 13.

Solution:

213.4 – 56.84 – 11.87 – 16.087

= 213.400 – 56.840 – 11.870 – 16.087

(Converting into like decimals)

= 213.400 – (56.840 + 11.870 + 16.087)

= 213.400 – 84.797

= 128.603 Ans.

Working :

$$\begin{array}{r} 56{\cdot}840 \\ +\ 11{\cdot}870 \\ +\ 16{\cdot}087 \\ \hline 84{\cdot}797 \end{array} \qquad \begin{array}{r} 213{\cdot}400 \\ -\ 84{\cdot}797 \\ \hline 128{\cdot}603 \end{array}$$

Question 14.

Solution: 76.3 . 7.666 . 6.77

= 76.300 – 7.666 – 6.770

(Converting into like decimals)

= 76.300 – 14.436

= 61.864 Ans.

Working :

$$\begin{array}{r} 7{\cdot}666 \\ +\ 6{\cdot}770 \\ \hline 14{\cdot}436 \end{array} \qquad \begin{array}{r} 76{\cdot}300 \\ -\ 14{\cdot}436 \\ \hline 61{\cdot}864 \end{array}$$

Question 15.

Solution:

In order to get the required number, we have to subtract 74.5 from 91.

Required number = 91 – 74.5

= 91.0 – 74.5

= 16.5 Ans.

Working :

$$\begin{array}{r} 91{\cdot}0 \\ -\ 74{\cdot}5 \\ \hline 16{\cdot}5 \\ \hline \end{array}$$

Question 16.

Solution:

In order to get the required numbers, we have to subtract 0.862 from 7.3.

Required number = 7.3 – 0.862

= 7.300 – 0.862

= 6.438 Ans.

Working :

$$\begin{array}{r} 7{\cdot}300 \\ -\ 0{\cdot}862 \\ \hline 6{\cdot}438 \\ \hline \end{array}$$

Question 17.

Solution:

In order to get the required number, we have to subtract 23.754 from 50

Required number = 50 – 23.754

= 50.000 – 23.754

= 26.246 Ans.

Working :

$$\begin{array}{r} 50{\cdot}000 \\ -\ 23{\cdot}754 \\ \hline 26{\cdot}246 \end{array}$$

Question 18.

Solution:

In order to get the required number, we should subtract 27.84 from 84.5

Required number = 84.5 – 27.84

= 84.50 – 27.84

= 56.66 Ans.

Working :

$$\begin{array}{r} 84{\cdot}50 \\ -\ 27{\cdot}84 \\ \hline 56{\cdot}66 \end{array}$$

Question 19.

Solution:

Weight of Neelam's bag = 6 kg 80 g

Weight of Garima bag = 5 kg 265 g

Difference in their weights = 6 kg 80 g – 5 kg 265 g

= 6.080 kg – 5.265 kg

= 0.815 kg

= 815 g

Neelam's bag is heavier by 815 g Ans.

Working :

$$\begin{array}{r} 6{\cdot}080 \\ -\ 5{\cdot}265 \\ \hline 0{\cdot}815 \end{array}$$

Question 20.

Solution:

Cost of a notebook = Rs. 19.75

Cost of a pencil = Rs. 3 .85

Cost of a pen = Rs. 8.35

Total cost = Rs. 19.75 + Rs. 3.85 + Rs. 8.35

= Rs. 31.95

Amount given to the bookshop = Rs. 50

Balance amount to get back = Rs. 50.00 – Rs. 31.95

= Rs. 18.05 Ans.

Working :

$$\begin{array}{r} 19{\cdot}75 \\ +\ \ 3{\cdot}85 \\ +\ \ 8{\cdot}35 \\ \hline 31{\cdot}95 \end{array}$$

Question 21.

Solution:

Weight of fruits = 5 kg 75 g .

Weight of vegetables = 3 kg 465 kg

Total weight of both = 5 kg 75 g + 3 kg 465 g

= 5.075 kg + 3.465 kg

= 8.540 kg

Gross weight of bag with these things = 9 kg

Net weight of bag = 9.000 – 8.540

= 0.460 kg

= 460 g Ans.

Working :

$$\begin{array}{r} 5{\cdot}075 \\ +\ 3{\cdot}465 \\ \hline 8{\cdot}540 \\ \hline \end{array} \qquad \begin{array}{r} 9{\cdot}000 \\ -\ 8{\cdot}540 \\ \hline 0{\cdot}460 \\ \hline \end{array}$$

Question 22.

Solution:

Total distance = 14 km

Distance covered by scooter = 10 km 65 m

Distance covered by bus = 3 km 75 m

Total distance covered by scooter and by bus = 10 km 65 m + 3 km 75 m

= 10.065 km + 3 075 m

= 13.140 km

Remaining distance covered by walking

= (14.000 – 13.140) km

= 0.860 km

= 860 m Ans.

Working :

$$\begin{array}{r} 10{\cdot}065 \\ +\ 3{\cdot}075 \\ \hline 13{\cdot}140 \\ \hline \end{array} \qquad \begin{array}{r} 14{\cdot}000 \\ -\ 13{\cdot}140 \\ \hline 0{\cdot}860 \\ \hline \end{array}$$

Ex 7E Solutions

Question 1.

Solution:

(c) 710 = 0.7

Question 2.

Solution:

(d) 5100 = .05

Question 3.

Solution:

(b) 91000 = 0.009

Question 4.

Solution:

(a) 161000 = 0.016

Question 5.

Solution:

(c) 1341000 = 0.134

Question 6.

Solution:

(a) 217100 = 2.17

Question 7.

Solution:

(b) 431000 = 4.03

Question 8.

Solution:

(b) 6.25 = 625100 = 614

Question 9.

Solution:

(b) 625

= 6×425×4

= 24100

= 0.24

Question 10.

Solution:

(c) 478 = 398 = 4.875

Question 11.

Solution:

(a) 24.8 = 24810

= 2445

Question 12.

Solution:

(b) 2125

= 2 + 125 x 44

= 2 + 4100

= 2.04

Question 13.

Solution:

(c) 2 + 310 + 4100

= 2 + 30100 + 4100

= 2.34

Question 14.

Solution:

(b) 26100

= 2 + 0.06

= 2.06

Question 15.

Solution:

(c) 4100 + 710000

= 0.04 + 0.0007

= 0.0407

Question 16.

Solution:

(c) 2.06

= (2×1)+(6×1100)

= 2+6100

Question 17.

Solution:

(d) Among 2.600, 2.006, 2.660,2.080, 2.660 is the largest.

Question 18.

Solution:

(b) 2.002 < 2.020 < 2.200 < 2.222 is the correct.

Question 19.

Solution:

(a) 2.1 = 2.100 and 2.005

2.100 > 2.055

=> 2.1 > 2.055

Question 20.

Solution:

(b) 1cm = 1100 m

= 0.01

Question 21.

Solution:

(b) 2 m 5 cm = 2.05 m

Question 22.

Solution:

(c) 2 kg 8 g = 2 + 0.008 = 2.008

Question 23.

Solution:

(b) 2 kg 56 g = 2.056 kg

(∵ 1000 g = 1 kg)

Question 24.

Solution:

(c) 2 km 35 m = 2.035 km

(∵ 1000 m = 1 km)

Question 25.

Solution:

(c) ∵ 0.4 + 0.004 + 4.4

= 4.804

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Question 26.

Solution:

(a) ∵ 3.5 + 4.05 – 6.005

= 3.500 + 4.050 – 6.005

= 7.550 – 6.005

= 1.545

Question 27.

Solution:

(b) ∵6.3 – 2.8 = 3.5

Question 28.

Solution:

(c) ∵ 5.01 – 3.6 = 5.01 – 3.60

= 1.41

Question 29.

Solution:

(a) ∵ 2 – 0.7 = 2.0 – 0.7 = 1.3

Question 30.

Solution:

(a) ∵ 1.1 – 0.3

= 0.8

RS Aggarwal Class 6 Solutions

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He was born on January 2, 1946 in a village of Delhi. He graduated from Kirori Mal College, University of Delhi. After completing his M.Sc. in Mathematics in 1969, he joined N.A.S. College, Meerut, as a lecturer. In 1976, he was awarded a fellowship for 3 years and joined the University of Delhi for his Ph.D. Thereafter, he was promoted as a reader in N.A.S. College, Meerut. In 1999, he joined M.M.H. College, Ghaziabad, as a reader and took voluntary retirement in 2003. He has authored more than 75 titles ranging from Nursery to M. Sc. He has also written books for competitive examinations right from the clerical grade to the I.A.S. level.

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