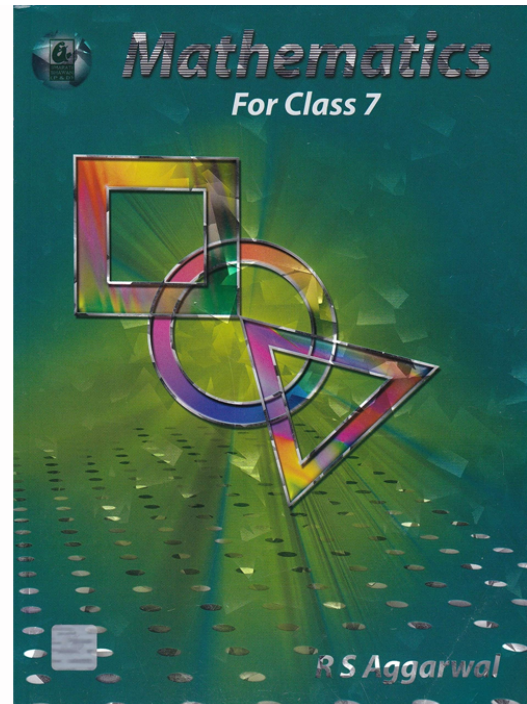


RS Aggarwal Solutions for Class 7

Maths Chapter 3–Decimals

Class 7 - Chapter 3 Relation



For any clarifications or questions you can write to info@indcareer.com

Postal Address

IndCareer.com, 52, Shilpa Nagar, Somalwada Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888, **Website:** <https://www.indcareer.com>

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RS Aggarwal Solutions for Class 7 Maths Chapter 3–Decimals

Class 7: Maths Chapter 3 solutions. Complete Class 7 Maths Chapter 3 Notes.

RS Aggarwal Solutions for Class 7 Maths Chapter 3–Decimals

RS Aggarwal 7th Maths Chapter 3, Class 7 Maths Chapter 3 solutions

Ex 3A

Question 1.

Solution:

$$(i) .8 = \frac{8}{10} = \frac{8 \div 2}{10 \div 2} = \frac{4}{5}$$

$$(ii) .75 = \frac{75}{100} = \frac{75 \div 25}{100 \div 25} = \frac{3}{4}$$

$$(iii) .06 = \frac{6}{100} = \frac{6 \div 2}{100 \div 2} = \frac{3}{50}$$

$$(iv) .285 = \frac{285}{1000} = \frac{285 \div 5}{1000 \div 5} = \frac{57}{200}$$

Question 2.

Solution:

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$$(i) 5.6 = \frac{56}{10} = \frac{56 \div 2}{10 \div 2} = \frac{28}{5} = 5\frac{3}{5}$$

$$(ii) 12.25 = \frac{1225}{100} = \frac{1225 \div 25}{100 \div 25} = \frac{49}{4} \\ = 12\frac{1}{4}$$

$$(iii) 6.004 = \frac{6004}{1000} = \frac{6004 \div 4}{1000 \div 4} = \frac{1501}{250} \\ = 6\frac{1}{250}$$

$$(iv) 4.625 = \frac{4625}{1000} = \frac{4625 \div 125}{1000 \div 125} = \frac{37}{8} \\ = 4\frac{5}{8}$$

Question 3.

Solution:

$$(i) \frac{47}{10} = 4.7$$

$$(ii) \frac{156}{100} = 1.56$$

$$(iii) \frac{2516}{100} = 25.16$$

$$(iv) \frac{3524}{1000} = 3.524$$

$$(v) \frac{25}{8} = 3.125$$

$$\begin{array}{r} 8 \overline{) 25.00} \quad (3.125) \\ \underline{24} \\ 10 \\ \underline{8} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ \times \end{array}$$

$$(vi) 3\frac{2}{5} = \frac{17}{5}$$

$$= 3.4$$

$$\begin{array}{r} 5 \overline{) 17.0} \quad (3.4) \\ \underline{15} \\ 20 \\ \underline{20} \\ \times \end{array}$$

$$(vii) 2\frac{2}{25} = \frac{52}{25}$$

$$= 2.08$$

$$\begin{array}{r} 25 \overline{) 52.0} \quad (2.08) \\ \underline{50} \\ 200 \\ \underline{200} \\ \times \end{array}$$

$$(viii) \frac{17}{20} = 0.85$$

$$\begin{array}{r} 20 \overline{) 17.00} \quad (0.85) \\ \underline{160} \\ 100 \\ \underline{100} \\ \times \end{array}$$

Question 4.

Solution:

(i) 6.5, 16.03, 0.274, 119.4

In these decimals, the greatest places of decimal is 3

$$6.5 = 6.500$$

$$16.03 = 16.030$$

$$0.274 = 0.274$$

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119.4 = 119.400 are like decimals.

(ii) 3.5, 0.67, 15.6, 4

In these decimal, the greatest place of decimal is 2

3.5 = 3.50

0.67 = 0.67

15.6 = 15.60

4 = 4.00 are the like decimals

Question 5.

Solution:

(i) Among 78.23 and 69.85,

78.23 is greater than 69.85 ($78 > 69$)

$78.23 > 69.85$

(ii) Among 3.406 and 3.46,

3.406 is less than 3.46 ($40 < 46$)

$3.406 < 3.46$

(iii) Among 5.68 and 5.86,

5.68 is less than 5.86 ($68 < 86$)

$5.68 < 5.86$

(iv) Among 14.05 and 14.005

14.5 is greater than 14.005 ($05 > 00$)

$14.5 > 14.005$

(v) Among 1.85 and 1.805,

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1.85 is greater than 1.805 ($85 > 80$)

$1.85 > 1.805$

(vi) Among 0.98 and 1.07,

0.98 is less than 1.07 ($0 < 1$)

$0.98 < 1.07$

Question 6.

Solution:

(i) 4.6, 7.4, 4.58, 7.32, 4.06

Converting the given decimals into like decimals, we get:

4.60, 7.40, 4.58, 7.32, 4.06.

We see that $4.06 < 4.58 < 4.60 < 7.32 < 7.40$.

Writing in ascending order, 4.06, 4.58, 4.6, 7.32, 7.4

(ii) 0.5, 5.5, 5.05, 0.05, 5.55

Converting the given decimals into like decimals, we get:

0.50, 5.50, 5.05, 0.05, 5.55

We see that $0.05 < 0.50 < 5.05 < 5.50 < 5.55$.

Writing in ascending order, 0.05, 0.50, 5.05, 5.5, 5.55

(iii) 6.84, 6.84, 6.8, 6.4, 6.08

Converting the given decimals into like decimals

6.84, 6.48, 6.80, 6.40, 6.08

We see that $6.08 < 6.40 < 6.48 < 6.80 < 6.84$

Writing in ascending order,

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6.08, 6.4, 6.48, 6.8, 6.84

(iv) 2.2, 2.202, 2.02, 22.2, 2.002

Converting them into like decimals

2.200, 2.202, 2.020, 22.200, 2.002 we see that

$2.002 < 2.020 < 2.200 < 2.202 < 22.200$

Now writing in ascending order,

2.002, 2.020, 2.2, 2.202, 22.2

Question 7.

Solution:

(i) 7.4, 8.34, 74.4, 7.44, 0.74

Converting them into like decimals,

7.40, 8.34, 74.40, 7.44, 0.74

we see that

$74.40 > 8.34 > 7.44 > 7.40 > 0.74$

Writing in descending order,

74.4, 8.34, 7.44, 7.4, 0.74

(ii) 2.6, 2.26, 2.06, 2.007, 2.3

Converting them into like decimals,

2.600, 2.260, 2.060, 2.007, 2.300

We see that

$2.600 > 2.300 > 2.260 > 2.060 > 2.007$

Writing in descending order,

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2.6, 2.3, 2.26, 2.06, 2.007

Question 8.

Solution:

$$45 \text{ mm} = \frac{45}{10} = 4.5 \text{ cm}$$

$$= \frac{4.5}{100} \text{ m} = 0.045 \text{ m}$$

$$= \frac{0.045}{1000} \text{ km} = 0.000045 \text{ km}$$

Question 9.

Solution:

$$(i) \ 8 \text{ paise} = \frac{8}{100} = 0.08 \text{ rupee}$$

$$(ii) \ 9 \text{ rupees } 75 \text{ paise} = 9\frac{75}{100} \text{ rupee}$$
$$= 9.75 \text{ rupees}$$

$$(iii) \ 8 \text{ rupees } 5 \text{ paise} = 8\frac{5}{100} \text{ rupee}$$
$$= 8.05 \text{ rupees}$$

Question 10.

Solution:

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$$(i) \ 65 \text{ m} = \frac{65}{1000} \text{ km} = 0.065 \text{ km}$$

$$(ii) \ 284 \text{ m} = \frac{284}{1000} \text{ km} = 0.284 \text{ km}$$

$$(iii) \ 3 \text{ km } 5 \text{ m} = 3 \frac{5}{1000} \text{ km} = 3.005 \text{ km}$$

Ex 3B**Question 1.****Solution:**

Converting them into like decimals 16.00, 8.70, 0.94, 6.80 and 7.77

Now, adding them,

$$16.0 + 8.70 + 0.94 + 6.80 + 7.77 = 40.21$$

$$\begin{array}{r} 16.00 \\ 8.70 \\ 0.94 \\ 6.80 \\ + 7.77 \\ \hline 40.21 \end{array}$$

Question 2.**Solution:**

Converting them into like decimals 18.600, 206.370, 8.008, 26.400, 6.900

Adding we get

$$18.600 + 206.370 + 8.008 + 26.400 + 6.900 = 266.278$$

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$$\begin{array}{r} 18.600 \\ 206.370 \\ 8.008 \\ 26.400 \\ + 6.900 \\ \hline 266.278 \end{array}$$

Question 3.**Solution:**

Converting them into like decimals, 63.50, 9.70, 0.80, 26.66, 12.17

Adding we get:

$$63.50 + 9.70 + 0.80 + 26.66 + 12.17 = 112.83$$

$$\begin{array}{r} 63.50 \\ 9.70 \\ 0.80 \\ 26.66 \\ + 12.17 \\ \hline 112.83 \end{array}$$

Question 4.**Solution:**

Converting them into like decimals 17.400, 86.390, 9.435, 8.800, 0.060

Adding we get:

$$17.400 + 86.390 + 9.435 + 8.800 + 0.060 = 122.085$$

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$$\begin{array}{r} 17.400 \\ 86.390 \\ 9.435 \\ 8.800 \\ + 0.060 \\ \hline 122.085 \end{array}$$

Question 5.**Solution:**

Converting them into like decimals 26.900, 19.740, 231.769, 0.048

Now adding we get:

$$26.900 + 19.740 + 231.769 + 0.048 = 278.457$$

$$\begin{array}{r} 26.900 \\ 19.740 \\ 231.769 \\ + 0.048 \\ \hline 278.457 \end{array}$$

Question 6.**Solution:**

Converting them into like decimals 23.800, 8.940, 0.078 and 214.600

Now adding we get:

$$23.800 + 8.940 + 0.078 + 214.600 = 247.418$$

$$\begin{array}{r} 23.800 \\ 8.940 \\ 0.078 \\ + 214.600 \\ \hline 247.418 \end{array}$$

Question 7.

Solution:

Converting them into like decimals.

6.606, 66.600, 666.000, 0.066, 0.660

Now adding we get:

$$6.606 + 66.600 + 666.000 + 0.066 + 0.660 = 739.932$$

$$\begin{array}{r} 6.606 \\ 66.600 \\ 666.000 \\ 0.066 \\ + 0.660 \\ \hline 739.932 \end{array}$$

Question 8.

Solution:

9.090, 0.909, 99.900, 9.990, 0.099

Now adding we get:

$$9.090 + 0.909 + 99.900 + 9.990 + 0.099 = 119.988$$

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$$\begin{array}{r} 9.090 \\ 0.909 \\ 99.900 \\ 9.990 \\ + 0.099 \\ \hline 119.988 \end{array}$$

Subtract:

Question 9.

Solution:

14.79 from 72.43

$$72.43 - 14.79 = 57.64$$

$$\begin{array}{r} 72.43 \\ - 14.79 \\ \hline 57.64 \end{array}$$

Question 10.

Solution:

Converting them into like decimals, We get

36.74 and 52.60

$$\text{Now } 52.60 - 36.74 = 15.86$$

$$\begin{array}{r} 52.60 \\ - 36.74 \\ \hline 15.86 \end{array}$$

Question 11.**Solution:**

Converting them into like decimals, We get

13.876 and 22.000

$$22.000 - 13.876 = 8.124$$

$$\begin{array}{r} 22.000 \\ - 13.876 \\ \hline 8.124 \end{array}$$

Question 12.**Solution:**

Converting them into like decimals, We get

15.079 and 24.160

$$24.160 - 15.079 = 9.081$$

$$\begin{array}{r} 24.160 \\ - 15.079 \\ \hline 9.081 \end{array}$$

Question 13.**Solution:**

Converting them into like decimals We get

0.680 and 1.007

$$1.007 - 0.680 = 0.327$$

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$$\begin{array}{r} 1.007 \\ - 0.680 \\ \hline 0.327 \end{array}$$

Question 14.

Solution:

Converting them into like decimals,

We get 0.4678 and 5.0500

$$5.0500 - 0.4678 = 4.5822$$

$$\begin{array}{r} 5.0500 \\ - 0.4678 \\ \hline 4.5822 \end{array}$$

Question 15.

Solution:

Converting them into like decimals,

We get 2.5307 and 8.0000

$$8.0 - 2.5307 = 5.4693$$

$$\begin{array}{r} 8.0000 \\ - 2.5307 \\ \hline 5.4693 \end{array}$$

Question 16.

Solution:

There are like decimals

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$$9.1 - 6.732 = 2.269$$

$$\begin{array}{r} 9.001 \\ -6.732 \\ \hline 2.269 \end{array}$$

Question 17.

Solution:

Converting them into like decimals,

We get 5.746 and 9.100

$$9.100 - 5.746 = 3.354$$

$$\begin{array}{r} 9.100 \\ - 5.746 \\ \hline 3.354 \end{array}$$

Question 18.

Solution:

Converting into like decimals, we get,

63.59 and 92.00

$$\text{Required number} = 92.00 - 63.58 = 28.42$$

$$\begin{array}{r} 92.00 \\ -63.58 \\ \hline 28.42 \end{array}$$

Question 19.

<https://www.indcareer.com/schools/rs-aggarwal-solutions-for-class-7-maths-chapter-3-decimals/>

Solution:

Converting into like decimals, we get:

8.100 and 0.813

Required number = $8.100 - 0.813 = 7.287$

$$\begin{array}{r} 8.100 \\ -0.813 \\ \hline 7.287 \end{array}$$

Question 20.**Solution:**

Converting them into like decimals, we get: 32.67 and 60.10

Required number = $60.10 - 32.67 = 27.43$

$$\begin{array}{r} 60.10 \\ -32.67 \\ \hline 27.43 \end{array}$$

Question 21.**Solution:**

Converting into like decimals, we get 74.3 and 26.87

Required number = $74.30 - 26.87 = 47.43$

$$\begin{array}{r} 74.30 \\ -26.87 \\ \hline 47.43 \end{array}$$

Question 22.

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Solution:

Cost of notebook = Rs. 23.75

Cost of pencil = Rs. 2.85

Cost of pen = Rs. 15.90

Total cost = Rs. 42.50

Amount given to the shop keeper = 50 rupees

Balance amount got = Rs 50.00 – Rs 42.50 = 7.50

Ex 3C**Question 1.****Solution:**

We know that by multiplying by 10, the decimal point is shifted one place to its right side.

(i) $73.92 \times 10 = 739.2$

(ii) $7.54 \times 10 = 75.4$

(iii) $84.003 \times 10 = 840.03$

(iv) $0.83 \times 10 = 8.3$

(v) $0.7 \times 10 = 7.0$

(vi) $0.032 \times 10 = 0.32$

Question 2.**Solution:**

We know that by multiplying a decimal by 100, two decimal points are shifted to its right side

(i) $2.397 \times 100 = 239.7$

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(ii) $6.83 \times 100 = 683.0$

(iii) $2.9 \times 100 = 290$

(iv) $0.08 \times 100 = 8$

(v) $0.6 \times 100 = 60$

(vi) $0.003 \times 100 = 0.3$

Question 3.

Solution:

We know that by multiplying a decimal by 1000, three places of decimal are shifted to its right.

(i) $6.7314 \times 1000 = 6731.4$

(ii) $0.182 \times 1000 = 182$

(iii) $0.076 \times 1000 = 76$

(iv) $6.25 \times 1000 = 6250$

(v) $4.8 \times 1000 = 4800$

(vi) $0.06 \times 1000 = 60$

Question 4.

Solution:

(i) $5.4 \times 16 = 86.4$ (One place of decimal)

(ii) $3.65 \times 19 = 69.35$ (Two place of decimal)

(iii) $0.854 \times 12 = 10.2468$ (Three place of decimal)

(iv) $36.73 \times 48 = 1763.04$ (Two places of decimal)

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$$\begin{array}{r} 3673 \\ \times 48 \\ \hline 29384 \\ 14692 \times \\ \hline \underline{176304} \end{array}$$

(v) $4.125 \times 86 = 354.750$ (Three places of decimal)

$= 354.75$

$$\begin{array}{r} 4125 \\ \times 86 \\ \hline 24750 \\ 33000 \times \\ \hline 354750 \end{array}$$

(vi) $104.06 \times 75 = 7804.50$
 $= 7804.5$ (Two places of decimal)

$$\begin{array}{r} 10406 \\ \times 75 \\ \hline 52030 \\ 72842 \times \\ \hline 780450 \end{array}$$

(vii) $6.032 \times 124 = 747.968$
(Three places of decimal)

$$\begin{array}{r} 60032 \\ \times 124 \\ \hline 24128 \\ 12064 \times \\ 6032 \times \times \\ \hline 747968 \end{array}$$

–(viii) $0.0146 \times 69 = 1.0074$

(Four places of decimal)

$$\begin{array}{r} 146 \\ \times 69 \\ \hline 1314 \\ 876 \times \\ \hline 10074 \end{array}$$

(ix) $0.00125 \times 327 = 0.40875$

(Five places of decimal)

$$\begin{array}{r} 125 \\ \times 327 \\ \hline 875 \\ 250 \times \\ 375 \times \times \\ \hline 40875 \end{array}$$

Question 5.

Solution:

(i) $7.6 \times 2.4 = 18.24$

{Sum of decimal places = $1 + 1 = 2$ }

$$\begin{array}{r} 76 \\ \times 24 \\ \hline 304 \\ 152 \times \\ \hline 1824 \end{array}$$

(ii) $3.45 \times 6.3 = 21.735$

{Sum of decimal places = $2 + 1 = 3$ }

$$\begin{array}{r} 345 \\ \times 63 \\ \hline 1035 \\ 2070 \times \\ \hline 21735 \end{array}$$

(iii) $0.54 \times 0.27 = 0.1458$

{Sum of decimal places = $2 + 2 = 4$ }

$$\begin{array}{r} 54 \\ \times 27 \\ \hline 378 \\ 108 \times \\ \hline 1458 \end{array}$$

(iv) $0.568 \times 4.9 = 2.7832$

{Sum of decimal places = $3 + 1 = 4$ }

$$\begin{array}{r} 568 \\ \times 49 \\ \hline 5112 \\ 2272 \times \\ \hline 27832 \end{array}$$

(v) $6.54 \times 0.09 = 0.5886$

{Sum of decimal places = $2 + 2 = 4$ }

$$\begin{array}{r} 654 \\ \times 9 \\ \hline 5886 \end{array}$$

$$(vi) 3.87 \times 1.25 = 4.8375$$

{Sum of decimal places = 2 + 2 = 4}

$$\begin{array}{r} 387 \\ \times 125 \\ \hline 1935 \\ 774 \times \\ 387 \times \times \\ \hline 48375 \end{array}$$

$$(vii) 0.06 \times 0.38 = 0.0228$$

{Sum of decimal places = 2 + 2 = 4}

$$\begin{array}{r} 38 \\ \times 6 \\ \hline 228 \end{array}$$

$$(viii) 0.623 \times 0.75 = 0.46725$$

{Sum of decimal places = 3 + 2 = 5}

$$\begin{array}{r} 623 \\ \times 75 \\ \hline 3115 \\ 4361 \times \\ \hline 46725 \end{array}$$

$$(ix) 0.014 \times 0.46 = 0.00644$$

{Sum of decimal places = 3 + 2 = 5}

$$46 \times 14 = 644$$

$$(x) 54.5 \times 1.76 = 95.920 = 95.92$$

{Sum of decimal places = 1 + 2 = 3}

$$\begin{array}{r} 545 \\ \times 176 \\ \hline 3270 \\ 3815 \times \\ 545 \times \times \\ \hline 95920 \end{array}$$

$$(xi) 0.045 \times 2.4 = 0.1080 = 0.108$$

{Sum of decimal places = $3 + 1 = 4$ }

$$\begin{array}{r} 45 \\ \times 24 \\ \hline 1080 \end{array}$$

(xii) $1.245 \times 6.4 = 7.9680 = 7.968$

{Sum of decimal places = $3 + 1 = 4$ }

$$\begin{array}{r} 1245 \\ \times 64 \\ \hline 4980 \\ 7470 \times \\ \hline 79680 \end{array}$$

Question 6.

Solution:

(i) $13 \times 1.3 \times 0.13 = 2.197$

{Sum of decimal places = $1 + 2 = 3$ }

$$\begin{array}{r} 13 \\ \times 13 \\ \hline 169 \\ \times 13 \\ \hline 507 \\ 169 \times \\ \hline 2197 \end{array}$$

(ii) $2.4 \times 1.5 \times 2.5 = 9.000 = 9$

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{Sum of decimal places = $1 + 1 + 1 = 3$ }

(iii) $0.8 \times 3.5 \times 0.05 = 0.1400 = 0.14$

{Sum of decimal places = $1 + 1 + 2 = 4$ }

(iv) $0.2 \times 0.02 \times 0.002 = 0.000008$

{Sum of decimal places = $1 + 2 + 3 = 6$ }

(v) $11.1 \times 1.1 \times 0.11 = 1.3431$

{Sum of decimal places = $1 + 1 + 2 = 4$ }

$$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \\ \hline \end{array}$$

$$\begin{array}{r} 111 \\ \times 121 \\ \hline 111 \\ 222 \times \\ 111 \times \times \\ \hline 13431 \\ \hline \end{array}$$

(vi) $2.1 \times 0.21 \times 0.021 = 0.00926$

$21 \times 21 = 441$

$441 \times 21 = 9261$

{Sum of decimal places = $1 + 2 + 3 = 6$ }

Question 7.

Solution:

(i) $(1.2)^2 = 1.2 \times 1.2 = 1.44$

{Sum of decimal places = $1 + 1 = 2$ }

(ii) $(0.7)^2 = 0.7 \times 0.7 = 0.49$

{Sum of decimal places = $1 + 1 = 2$ }

(iii) $(0.04)^2 = 0.04 \times 0.04 = 0.0016$

{Sum of decimal places = $2 + 2 = 4$ }

(iv) $(0.11)^2 = 0.11 \times 0.11 = 0.0121$

{Sum of decimal places = $2 + 2 = 4$ }

Question 8.

Solution:

(i) $(0.3)^3 = 0.3 \times 0.3 \times 0.3 = 0.027$

{Sum of decimal places = $1 + 1 + 1 = 3$ }

(ii) $(0.05)^3 = 0.05 \times 0.05 \times 0.05 = 0.000125$

{Sum of decimal places = $2 + 2 + 2 = 6$ }

(iii) $(1.5)^3 = 1.5 \times 1.5 \times 1.5 = 3.375$

{Sum of decimal places = $1 + 1 + 1 = 3$ }

15	225
$\times 15$	$\times 15$
75	1125
150	225
225	3375

Question 9.

Solution:

Distance covered in one hour = 62.5 km

Distance covered in 18 hours = $62.5 \times 18 \text{ km} = 1125.0 \text{ km}$

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Question 10.**Solution:**

Weight of one tin of oil = 16.8 kg

Weight of 45 tins = 16.8×45 kg = 756.0 kg = 756 kg

$$\begin{array}{r} 16.8 \\ \times 45 \\ \hline 840 \\ 672 \times \\ \hline 756.0 \end{array}$$

Question 11.**Solution:**

Weight of wheat in one bag = 97.8 kg

weight of wheat in 500 bags = 97.8×500 kg = 48900.0 kg = 48900 kg

$$\begin{array}{r} 97.8 \\ \times 500 \\ \hline 48900.0 \end{array}$$

Question 12.**Solution:**

Weight of one bag = 48.450 kg

Weight of 16 bags = 48.450×16 = 775.200 kg

$$\begin{array}{r} 48.450 \\ \times 16 \\ \hline 290700 \\ 48450 \times \\ \hline 775.200 \end{array}$$

Question 13.

Solution:

Quantity of sauce in one bottle = 0.845 kg

quantity of sauce in 72 bottles = $0.845 \times 72 \text{ kg} = 60.840 \text{ kg}$

$$\begin{array}{r} 0.845 \\ \times 72 \\ \hline 1690 \\ 5915 \times \\ \hline 60.840 \end{array}$$

Question 14.

Solution:

Quantity of jam in one bottle = 925 .

Quantity of jam in 25 bottles = $925 \times 25 \text{ g} = 23125 \text{ g} = 23.125 \text{ kg}$

$$\begin{array}{r} 925 \\ \times 25 \\ \hline 4625 \\ 1850 \times \\ \hline 23125 \end{array}$$

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Question 15.**Solution:**

Oil in one drum = 16.850 litres

Oil in 48 drums = $16.850 \times 48 = 808.800 = 808.800$ litres

$$\begin{array}{r} 16.850 \\ \times \quad 48 \\ \hline 134800 \\ 67400 \times \\ \hline 808.800 \end{array}$$

Question 16.**Solution:**

Cost of 1 kg rice = Rs 56.80

Cost of 16.25 kg of rice = $\text{Rs } 56.80 \times 16.25 = \text{Rs } 923.0000 = \text{Rs } 923$

$$\begin{array}{r} 56.80 \\ \times \quad 16.25 \\ \hline 28400 \\ 11360 \times \\ 34080 \times \times \\ 5680 \times \times \times \\ \hline 923.0000 \end{array}$$

Question 17.**Solution:**

Cost of one metre of cloth = Rs 108.5 0

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Cost of 18.5 metres of cloth = Rs 108.50×18.5 = Rs 2007.250 = Rs 2007.25

$$\begin{array}{r} \times 18.5 \\ \hline 54250 \\ 86800 \times \\ \hline 10850 \times \times \\ \hline 2007250 \end{array}$$

Question 18.

Solution:

Distance covered in one litre = 8.6 km

Distance covered in 36.5 litres = 8.6×36.5 km = 313.90 km = 313.9 km

$$\begin{array}{r} 36.5 \\ \times 8.6 \\ \hline 2190 \\ 2920 \times \\ \hline 313.90 \end{array}$$

Question 19.

Solution:

Charges for 1 km = Rs 9.80

Charges for 106.5 km = $Rs\ 9.80 \times 106.5$ = Rs 1043.700 = Rs 1043.70

$$\begin{array}{r} 106.5 \\ \times 9.80 \\ \hline 85200 \\ 9585 \times \times \\ \hline 1043.700 \end{array}$$

Ex 3D**Question 1.****Solution:**

We know that a decimal divided by 10, the decimal point is shifted to the left by one place. Therefore

(i) $131.6 \div 10 = 13.16$

(ii) $32.56 \div 10 = 3.256$

(iii) $4.38 \div 10 = 0.438$

(iv) $0.34 \div 10 = 0.034$

(v) $0.08 \div 10 = 0.008$

(vi) $0.062 \div 10 = 0.0062$

Question 2.**Solution:**

We know that decimal divided by 100, the decimal point is shifted to the left by two place. Therefore

(i) $137.2 \div 100 = 1.372$

(ii) $23.4 \div 100 = 0.234$

(iii) $4.1 \div 100 = 0.041$

(iv) $0.3 \div 100 = 0.003$

(v) $0.58 \div 100 = 0.0058$

(vi) $0.02 \div 100 = 0.0002$

Question 3.

Solution:

We know that a decimal divided by 1000, the decimal point is shifted to the left by three places. Therefore:

(i) $1286.5 \div 1000 = 1.2865$

(ii) $354.16 \div 1000 = 0.35416$

(iii) $38.9 \div 1000 = 0.0389$

(iv) $4.6 \div 1000 = 0.0046$

(v) $0.8 \div 1000 = 0.0008$

(vi) $2 \div 1000 = 0.002$

Question 4.

Solution:

$$(iii) 47 \div 20 = \frac{47}{20}$$

$$= 2.35$$

$$20 \overline{) 47.00} (2.35$$

$$\begin{array}{r} 40 \\ \underline{70} \\ 60 \\ \underline{100} \\ 100 \\ \underline{\times} \end{array}$$

$$(iv) 101 \div 25 = \frac{101}{25}$$

$$= 4.04$$

$$25 \overline{) 101.00} (4.04$$

$$\begin{array}{r} 100 \\ \underline{100} \\ 100 \\ \underline{\times} \end{array}$$

$$(i) 12 \div 8 = \frac{12}{8} = 1.5$$

$$8 \overline{) 12.0} (1.5$$

$$\begin{array}{r} 8 \\ \underline{40} \\ 40 \\ \underline{\times} \end{array}$$

$$(ii) 63 \div 15 = \frac{63}{15} = 4.2$$

$$15 \overline{) 63.0} (4.2$$

$$\begin{array}{r} 60 \\ \underline{30} \\ 30 \\ \underline{\times} \end{array}$$

$$(v) 31 \div 40 = \frac{31}{40}$$

$$= 0.775$$

$$40 \overline{)31.000}(0.775$$

$$\begin{array}{r} 280 \\ \hline 300 \\ 280 \\ \hline 200 \\ 200 \\ \hline \times \end{array}$$

$$(vi) 11 \div 16 = \frac{11}{16}$$

$$= 0.6875$$

$$16 \overline{)11.0000}(0.6875$$

$$\begin{array}{r} 96 \\ \hline 140 \\ 128 \\ \hline 120 \\ 112 \\ \hline 80 \\ 80 \\ \hline \times \end{array}$$

Question 5.

Solution:

$$(iv) 217.44 \text{ by } 18 = \frac{217.44}{18} = 12.08$$

$$18 \overline{)217.44} (12.08$$

$$\begin{array}{r} 18 \\ \underline{37} \\ 36 \\ \underline{144} \\ 144 \\ \underline{ \times} \end{array}$$

$$(i) 43.2 \text{ by } 6 = \frac{43.2}{6} = 7.2$$

$$(ii) 60.48 \text{ by } 12 = \frac{60.48}{12} = 5.04$$

$$(iii) 117.6 \text{ by } 21 = \frac{117.6}{21} = 5.6$$

$$21 \overline{)117.6} (5.6$$

$$\begin{array}{r} 105 \\ \underline{126} \\ 126 \\ \underline{ \times} \end{array}$$

$$(v) 2.575 \text{ by } 25 = \frac{2.575}{25} = 0.103$$

$$25 \overline{)2.575} (0.103$$

$$\begin{array}{r} 25 \\ \underline{75} \\ 75 \\ \underline{ \times} \end{array}$$

(vi) $6.08 \text{ by } 8 = \frac{6.08}{8} = 0.76$

$$\begin{array}{r} 8 \overline{)6.08} (0.76 \\ \underline{56} \\ 48 \\ \underline{48} \\ \times \end{array}$$

(vii) $0.765 \text{ by } 9 = \frac{0.765}{9} = 0.085$

$$\begin{array}{r} 9 \overline{)0.765} (0.085 \\ \underline{72} \\ 45 \\ \underline{45} \\ \times \end{array}$$

(viii) $0.768 \text{ by } 16 = \frac{0.768}{16} = 0.048$

$$\begin{array}{r} 16 \overline{)0.768} (0.048 \\ \underline{64} \\ 128 \\ \underline{128} \\ \times \end{array}$$

(ix) $0.175 \text{ by } 25 = \frac{0.175}{25} = 0.007$

$$\begin{array}{r} 25 \overline{)0.175} (0.007 \\ \underline{175} \\ \times \end{array}$$

$$(x) 0.3322 \text{ by } 11 = \frac{0.3322}{11} = 0.0302$$

$$11 \overline{)0.3322} (0.0302$$

$$\begin{array}{r} 33 \\ \hline 22 \\ 22 \\ \hline \times \end{array}$$

$$(xi) 2.13 \text{ by } 15 = \frac{2.13}{15} = 0.142$$

$$15 \overline{)2.130} (0.142$$

$$\begin{array}{r} 15 \\ \hline 63 \\ 60 \\ \hline 30 \\ 30 \\ \hline \times \end{array}$$

$$(xii) 6.54 \text{ by } 12 = \frac{6.54}{12} = 0.545$$

$$12 \overline{)6.540} (0.545$$

$$\begin{array}{r} 60 \\ \hline 54 \\ 48 \\ \hline 60 \\ 60 \\ \hline \times \end{array}$$

$$(xiii) 5.52 \text{ by } 16 = \frac{5.52}{16} = 0.345$$

$$16 \overline{)5.520} (0.345$$

$$\begin{array}{r} 48 \\ \hline 72 \\ 64 \\ \hline 80 \\ 80 \\ \hline \times \end{array}$$

$$(xiv) \ 1.001 \text{ by } 14 = \frac{1.001}{14} = 0.0715$$

$$14 \overline{)1.0010}(0.0715$$

$$\begin{array}{r} 98 \\ \hline 21 \\ 14 \\ \hline 70 \\ 70 \\ \hline \times \end{array}$$

$$(xv) \ 0.477 \text{ by } 18 = \frac{0.477}{18} = 0.0265$$

$$18 \overline{)0.4770}(0.0265$$

$$\begin{array}{r} 36 \\ \hline 117 \\ 108 \\ \hline 90 \\ 90 \\ \hline \times \end{array}$$

Question 6.

Solution:

(i) $16.46 \div 20 = \frac{16.46}{20} = 0.823$

$$\begin{array}{r} 20 \overline{)16.460} \quad (0.823) \\ \underline{160} \\ 46 \\ \underline{40} \\ 60 \\ \underline{60} \\ \times \end{array}$$

(ii) $403.8 \div 30 = \frac{403.8}{30} = 13.46$

$$\begin{array}{r} 30 \overline{)403.80} \quad (13.46) \\ \underline{30} \\ 103 \\ \underline{90} \\ 138 \\ \underline{120} \\ 180 \\ \underline{180} \\ \times \end{array}$$

(iii) $19.2 \div 80 = \frac{19.2}{80} = 0.24$

$$\begin{array}{r} 80 \overline{)19.20} \quad (0.24) \\ \underline{160} \\ 320 \\ \underline{320} \\ \times \end{array}$$

$$(iv) 156.8 \text{ by } 200 = \frac{156.8}{200} = 0.784$$

$$200 \overline{)156.800}(0.784$$

$$\begin{array}{r} 1400 \\ \hline 1680 \\ 1600 \\ \hline 800 \\ 800 \\ \hline \times \end{array}$$

$$(v) 12.8 \div 500 = \frac{12.8}{500} = 0.0256$$

$$500 \overline{)12.8000}(0.0256$$

$$\begin{array}{r} 1000 \\ \hline 2800 \\ 2500 \\ \hline 3000 \\ 3000 \\ \hline \times \end{array}$$

$$(vi) 18.08 \div 400 = \frac{18.08}{400} = 0.0452$$

$$400 \overline{)18.0800}(0.0452$$

$$\begin{array}{r} 1600 \\ \hline 2080 \\ 2000 \\ \hline 800 \\ 800 \\ \hline \times \end{array}$$

Question 7.

Solution:

$$(i) \ 3.28 \text{ by } 0.8 = \frac{3.28}{0.8} = \frac{3.28 \times 10}{0.8 \times 10}$$
$$= \frac{32.8}{8} = 4.1$$

$$(ii) \ 0.288 \text{ by } 0.9 = \frac{0.288}{0.9} = \frac{0.288 \times 10}{0.9 \times 10}$$
$$= \frac{2.88}{9} = 0.32$$

$$(iii) 25.395 \text{ by } 1.5 = \frac{25.395}{1.5} = \frac{25.395 \times 10}{1.5 \times 10}$$

$$= \frac{253.95}{15} = 16.93$$

$$15 \overline{)253.95} (16.93$$

$$\underline{15}$$

$$103$$

$$\underline{90}$$

$$139$$

$$\underline{135}$$

$$45$$

$$\underline{45}$$

$$\underline{\times}$$

$$(iv) 2.0484 \text{ by } 0.18 = \frac{2.0484}{0.18}$$

$$= \frac{2.0484 \times 100}{0.18 \times 100}$$

$$= \frac{204.84}{18} = 11.38$$

$$18 \overline{)204.84(11.38}$$

$$\begin{array}{r} 18 \\ \underline{18} \\ 24 \\ \underline{18} \\ 68 \\ \underline{54} \\ 144 \\ \underline{144} \\ \times \end{array}$$

$$(v) 0.228 \text{ by } 0.38 = \frac{0.228}{0.38} = \frac{0.228 \times 100}{0.38 \times 100}$$

$$= \frac{22.8}{38} = 0.6$$

$$38 \overline{)22.8(0.6}$$

$$\begin{array}{r} 228 \\ \underline{} \\ \times \end{array}$$

(vi) 0.8085 by $0.35 = \frac{0.8085}{0.35}$

$$= \frac{0.8085 \times 100}{0.35 \times 100}$$

$$= \frac{80.85}{35} = 2.31$$

$$35 \overline{)80.85} (2.31$$

70

108

105

35

35

×

(vii) 21.976 by $1.64 = \frac{21.976}{1.64}$

$$= \frac{21.976 \times 100}{1.64 \times 100}$$

$$= \frac{2197.6}{164} = 13.4$$

$$164 \overline{)2197.6} (13.4$$

164

557

492

656

656

×

(viii) 11.04 by $1.6 = \frac{11.04}{1.6} = \frac{11.04 \times 10}{1.6 \times 10}$

$$= \frac{110.4}{16} = 6.9$$

$$16 \overline{)110.4} (6.9$$

96

144

144

×

$$(ix) 6.612 \text{ by } 11.6 = \frac{6.612}{11.6} = \frac{6.612 \times 10}{11.6 \times 10}$$

$$= \frac{66.12}{116} = 0.57$$

$$116 \overline{) 66.12} (0.57$$

$$\underline{580}$$

$$812$$

$$\underline{812}$$

$$\underline{\times}$$

$$(x) 0.076 \text{ by } 0.19 = \frac{0.076}{0.19} = \frac{0.076 \times 100}{0.19 \times 100}$$

$$= \frac{7.6}{19} = 0.4$$

$$\begin{array}{r} 19 \overline{)7.6(0.4} \\ 76 \\ \hline \times \end{array}$$

$$(xi) 148 \text{ by } 0.074 = \frac{148}{0.074} = \frac{148 \times 1000}{0.074 \times 1000}$$

$$= \frac{148000}{74} = 2000$$

$$\begin{array}{r} 74 \overline{)148000(2000} \\ 148 \\ \hline \times \end{array}$$

$$(xii) 16.578 \text{ by } 5.4 = \frac{16.578}{5.4} = \frac{16.578 \times 10}{5.4 \times 10}$$

$$= \frac{165.78}{54} = 3.07$$

$$\begin{array}{r} 54 \overline{)165.78(3.07} \\ 162 \\ \hline 378 \\ 378 \\ \hline \times \end{array}$$

$$(xiii) 28 \text{ by } 0.56 = \frac{28}{0.56} = \frac{28 \times 100}{0.56 \times 100}$$

$$= \frac{2800}{56} = 50$$

$$\begin{array}{r} 56 \overline{)2800} (50 \\ \underline{280} \\ \times \end{array}$$

$$(xiv) 204 \text{ by } 0.17 = \frac{204}{0.17} = \frac{204 \times 100}{0.17 \times 100}$$

$$= \frac{20400}{17} = 1200$$

$$(xv) 3 \text{ by } 80 = \frac{3}{80} = 0.0375$$

$$\begin{array}{r} 80 \overline{)3.0000} (0.0375 \\ \underline{240} \\ 600 \\ \underline{560} \\ 400 \\ \underline{400} \\ \times \end{array}$$

Question 8.

Solution:

Cost of 24 chairs = Rs. 9255.60

Cost of one chair = Rs. $9255.60 \div 24$ = Rs. 385.65

Question 9.

Solution:

Length of cloth for one shirt = 1.8 m

Total length of piece of cloth = 45 m

Number of shirts will be = $45 \div 1.8$

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$$= \frac{45}{1.8}$$

$$= \frac{45 \times 10}{1.8 \times 10} = \frac{450}{18} = 25 \text{ shirts}$$

$$18 \overline{)450} 25$$

$$\underline{36}$$

$$90$$

$$\underline{90}$$

$$\underline{\quad \times \quad}$$

Question 10.

Solution:

A car covers in 2.4 litre = 22.8 km

It will cover in 1 litre = $22.8 \div 2.4$ km = 9.5 km

Question 11.

Solution:

Oil in one tin = 16.5 l

Total oil = 478.5 l

$$\therefore \text{Number of tins required} = \frac{478.5}{16.5}$$

$$= \frac{478.5 \times 10}{16.5 \times 10} = \frac{4785}{165} = 29 \text{ tins}$$

$$\begin{array}{r} 165 \overline{)4785} \\ \underline{330} \\ 1485 \\ \underline{1485} \\ 0 \end{array}$$

Question 12.

Solution:

Weight of 37 bags of sugar = 3644.5 kg

Weight of one bag of sugar = $3644.5 \div 37$

$$= \frac{3644.5}{37} \text{ kg}$$

$$= 98.5 \text{ kg}$$

$$\begin{array}{r} 37 \overline{)3644.5} \\ \underline{333} \\ 314 \\ \underline{296} \\ 185 \\ \underline{185} \\ 0 \end{array}$$

Question 13.

Solution:

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Capacity of 69 buckets = 586.5 litres

Capacity of 1 bucket = $586.5 \div 69$

$$\begin{aligned} &= \frac{586.5}{69} \text{ l} \\ &= 8.5 \text{ l} \end{aligned}$$
$$\begin{array}{r} 69 \overline{)586.5} \\ \underline{552} \\ 345 \\ \underline{345} \\ \times \end{array}$$

Question 14.

Solution:

Number of pieces in 1.15 m = 1

$$\begin{aligned} \therefore \text{Number of pieces in 46 m} &= \frac{46}{1.15} \\ &= \frac{46 \times 100}{1.15 \times 100} \\ &= \frac{4600}{115} = 40 \text{ pieces} \end{aligned}$$
$$\begin{array}{r} 115 \overline{)4600} \\ \underline{4600} \\ \times \end{array}$$

Question 15.

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Solution:

Total weight of cement = 1792.8 kg

Cement in one bag = 49.8 kg

Number of bags = $1792.8 \div 49.8$

$$\begin{aligned} &= \frac{1792.8}{49.8} = \frac{1792.8 \times 10}{49.8 \times 10} \\ &= \frac{17928}{498} = 36 \text{ bags} \end{aligned}$$
$$\begin{array}{r} 498 \overline{)17928} 36 \\ \underline{1494} \\ 2988 \\ \underline{2988} \\ 0 \end{array}$$

Question 16.**Solution:**

Total thickness = 1.89 m = 189 cm

Thickness of one piece = 0.35 cm

Number of pieces = $189 \div 0.35$

$$\begin{aligned} &= \frac{189}{0.35} = \frac{189 \times 100}{0.35 \times 100} = \frac{18900}{35} = 540 \text{ pieces} \end{aligned}$$
$$\begin{array}{r} 35 \overline{)18900} 540 \\ \underline{175} \\ 140 \\ \underline{140} \\ 0 \end{array}$$

Question 17.**Solution:**

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Product of two decimals = 261.36

One decimal = 17.6

Second decimal = $261.36 \div 17.6$

$$= \frac{261.36}{17.6} = \frac{261.36 \times 10}{17.6 \times 10} = \frac{2613.6}{176}$$

$$= 14.85$$

$$\begin{array}{r} 176 \overline{)2613.60} (14.85 \\ \underline{176} \\ 853 \\ \underline{704} \\ 1496 \\ \underline{1408} \\ 880 \\ \underline{880} \\ 0 \end{array}$$

Ex 3E

OBJECTIVE QUESTIONS

Mark (✓) against the correct answer in each of the following:

Question 1.

Solution:

(b)

$$0.06 = \frac{06}{100} = \frac{3}{50}$$

Question 2.

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Solution:

(c)

$$1.04 = \frac{104}{100} = \frac{26}{25} = 1\frac{1}{25}$$

Question 3.

Solution:

(b)

$$2\frac{2}{25} = \frac{52}{25} = \frac{52 \times 4}{25 \times 4}$$

$$= 208100 = 2.08$$

Question 4.

Solution:

$$6 \text{ cm} = \frac{6}{100} \text{ m}$$

$$= \frac{6}{100 \times 1000} \text{ km}$$

$$= \frac{6}{100000} = 0.00006 \text{ km} \quad (\text{c})$$

Question 5.

Solution:

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(b) $70\text{g} = 701000 = 0.07\text{ kg}$

Question 6.

Solution:

(c) $5\text{ kg } 6\text{ g} = 561000\text{ kg} = 5.006\text{ kg}$

Question 7.

Solution:

(c) $2\text{ km } 5\text{ m} = 251000\text{ km} = 2.005\text{ km}$

Question 8.

Solution:

(c)

$1.007 - 0.7 = 1.007 - 0.700 = 0.307$

Question 9.

Solution:

(b)

$0.1 - 0.03 = 0.10 - 0.03 = 0.07$

Question 10.

Solution:

(c)

$3.5 - 3.07 = 3.50 - 3.07 = 0.43$

Question 11.

Solution:

(c)

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$$0.23 \times 0.3 = 0.069$$

Question 12.

Solution:

(b)

$$0.02 \times 30 = .60 = .6$$

Question 13.

Solution:

(b)

$$0.25 \times 0.8 = 0.200 = 0.2$$

Question 14.

Solution:

(c)

$$0.4 \times 0.4 \times 0.4 = 0.064$$

Question 15.

Solution:

(b)

$$1.1 \times .1 \times .01 = .0011$$

Question 16.

Solution:

(a)

$$\begin{aligned}2.08 \div (.16) &= \frac{2.08}{0.16} = \frac{2.08 \times 100}{0.16 \times 100} \\&= \frac{208}{16} = 13\end{aligned}$$

Question 17.

Solution:

(b)

$$1.02 \div 6 = 1.026 = 0.17$$

Question 18.

Solution:

$$\begin{aligned}30.94 \div 0.7 &= \frac{30.94}{0.7} = \frac{3094 \times 10}{100 \times 7} \\&= \frac{442}{10} = 44.2\end{aligned}\quad (a)$$

Question 19.

Solution:

(b)

$$\begin{aligned}2.73 \div 1.3 &= \frac{2.73}{1.3} \\&= \frac{273 \times 10}{13 \times 100} = \frac{273}{130} = \frac{21}{10} = 2.1\end{aligned}$$

Question 20.

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Solution:

(a)

$$89.1 \div 2.2 = \frac{89.1}{2.2} = \frac{891 \times 10}{22 \times 10}$$
$$= \frac{81}{2} = 40.5$$

Question 21.

Solution:

(c)

$$0.5 \times 0.05 = \frac{5}{10} \times \frac{05}{100} = \frac{25}{1000}$$
$$= 0.025$$



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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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Postal Address

IndCareer.com
52, Shilpa Nagar,
Somalwada
Nagpur - 440015
Maharashtra, India

WhatsApp: +91 9561 204 888

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