RD SHARMA
Solutions
Class 7 Maths
Chapter 3
Ex 3.3

# Q1. Divide:

#### (i) 142.45 by 10

Shifting the decimal point by one place to the left

$$\frac{142.45}{10} = 14.245$$

$$=14.245$$

#### (ii) 54.25 by 10

Shifting the decimal point by one place to the left

$$\frac{54.25}{10} = 5.425$$

Shifting the decimal point by one place to the left

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\frac{3.45}{10}
0.345
```

#### (iv) 0.57 by 10

Shifting the decimal point by one place to the left

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\frac{0.57}{10} \\
= 0.057
```

#### (v) 0.043 by 10

Shifting the decimal point by one place to the left

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0.043
\frac{10}{10} =0.0043
```

#### (vi) 0.004 by 10

Shifting the decimal point by one place to the left

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\frac{10}{10} =0.0004
```

### Q2. Divide:

# (i) 459.5 by 100

Shifting the decimal point by two places to the left

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459.5
100
=4.595
```

# (ii) 74.3 by 100

Shifting the decimal point by two places to the left

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\frac{74.3}{100}
=0.743
```

#### (iii) 5.8 by 100

Shifting the decimal point by two places to the left

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5.8
=0.058
```

# (iv) 0.7 by 100

Shifting the decimal point by two places to the left

#### (v) 0.48 by 100

Shifting the decimal point by two places to the left

 $\begin{array}{c} \underline{0.48} \\ 100 \\ = 0.0048 \end{array}$ 

### (vi) 0.03 by 100

Shifting the decimal point by two places to the left

=0.0003

#### Q3. Divide:

#### (i) 235.41 by 1000

Shifting the decimal point by three places to the left

235.41 1000

=0.23541

# (ii) 29.5 by 1000

Shifting the decimal point by three places to the left

=0.0295

# (iii) 3.8 by 1000

Shifting the decimal point by three places to the left

 $\frac{3.8}{1000}$ 

=0.0038

# (iv) 0.7 by 1000

Shifting the decimal point by three places to the left

=0.007

#### Q4. Divide:

(i) 0.45 by 9

 $=\frac{0.45}{9}$ 

=0.05

(ii) 217.44 by 18

 $=\frac{217.44}{18}$ 

=12.08

(iii) 319.2 by 2.28

$$=\frac{319.2}{2.28}=140$$

(iv) 40.32 by 9.6

$$=\frac{40.32}{9.6}$$

$$=\frac{40.32\times10}{9.6\times10}$$

$$=\frac{403.2}{96}$$

=4.2

(v) 0.765 by 0.9

$$=\frac{0.765}{0.9}$$

$$= \frac{0.765 \times 10}{0.9 \times 10}$$

$$=\frac{7.65}{9}$$

=0.85

(vi) 0.768 by 1.6

$$=\frac{0.768}{1.6}$$

$$= \frac{0.768 \times 10}{1.6 \times 10}$$

$$=\frac{7.68}{16}$$

16)7.68	(0.48
0	35
76	
64	-9
128	
128	
0	-33
100	

=0.48

Q5. Divide:

(i) 16.64 by 20

$$=\frac{16.64}{20}$$

$$=\frac{16.64}{2\times10}$$

$$=\frac{16.64}{10}\times\frac{1}{2}$$

$$=\frac{1.664}{2}$$

=0.832

(ii) 0.192 by 12

$$=\frac{0.192}{12}$$

=0.016

(iii) 163.44 by 24

$$=\frac{0.192}{12}$$

.81

=6.81

(iv) 403.2 by 96

$$=\frac{403.2}{96}$$

=4.2

(v) 16.344 by 12

$$=\frac{16.344}{12}$$

=1.362

(vi) 31.92 by 228

$$=\frac{31.92}{228}$$

=0.14

Q6. Divide:

(i) 15.68 by 20

$$= \frac{15.68}{20}$$

$$= \frac{15.68}{2 \times 10}$$

$$= \frac{15.68}{10} \times \frac{1}{2}$$

$$= \frac{1.568}{2}$$

=0.784

(ii) 164.6 by 200

$$=\frac{164.6}{200}$$

$$=\frac{164.6}{2 \times 100}$$

$$=\frac{164.6}{100}\times\frac{1}{2}$$

$$=\frac{1.646}{2}$$

=0.823

(iii) 403.80 by 30

$$=\frac{403.80}{30}$$

$$=\frac{403.80}{3\times10}$$

$$=\frac{403.80}{10} \times \frac{1}{3}$$

$$=\frac{40.380}{3}$$

3)40.380 (13.46

-	70.500	122.7
	39	<b>→</b> 20
	13	
	12	
	18 18	-33
	18	
	0	740

# Q7. Divide:

# (i) 76 by 0.019

$$=\frac{76\times1000}{0.019\times1000}$$

$$=\frac{76000}{19}$$

# 19) 76000 (4000

=4000

# (ii) 88 by 0.08

$$=\frac{88}{0.08}$$

$$= \frac{88 \times 100}{0.08 \times 100}$$

$$=\frac{8800}{8}$$

# 8)8800 (1100

=1100

# (iii) 148 by 0.074

$$=\frac{148}{0.074}$$

$$= \frac{148 \times 1000}{0.074 \times 1000}$$

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

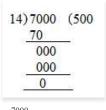
# 74)148000(2000

=2000

# (iv) 7 by 0.014

$$=\frac{7}{0.014}$$

$$=\frac{7\times1000}{0.014\times1000}$$



$$=\frac{7000}{14}$$

Q8. Divide:

(i) 20 by 50

 $=\frac{20}{50}$ 

(ii) 8 by 100

$$=\frac{8}{100}$$

By shifting the decimal point to the left

$$=\frac{8}{100}$$

=0.08

(iii) 72 by 576

$$=\frac{72}{576}$$

=0.125

(iv) 144 by 15

$$=\frac{144}{15}$$

=9.6

Q9. A vehicle covers a distance of 43.2 km in 2.4 litres of petrol. How much distance will it travel in 1 litre of petrol?

Distance covered in 2.4 litres of petrol=43.2km

Distance covered in 1 litre of petrol=  $\frac{43.2}{2.4}$ 

=18km

The distance travelled in 1 litre of petrol is 18 km

Q10. The total weight of some bags of wheat is 1743 kg. If each bag weights 49.8 kg, how many bags are there?

Total weight of bags of wheat=1743kg

Each bag weight=49.8kg
No of bags= $\frac{1743}{49.8}$
$=\frac{1743\times10}{49.8\times10}$
$=\frac{17430}{498}$
=34
Therefore the total numbers of bags are 35
Q11. Shikha cuts 50 m of cloth into pieces of 1.25 m each. How many pieces does she get?
Total length of cloth= 50m
Length of each piece of cloth=1.25m
Number of pieces= $\frac{50}{1.25}$
$=\frac{50\times100}{1.25\times100}$
$=\frac{5000}{125}$
=40 pieces
Therefore Shikha got 40 pieces
Therefore official got 40 pieces
Q12. Each side of a rectangular polygon is 2.5 cm in length. The perimeter of the polygon is 12.5 cm. How many sides does the polygon have?
Length of each side of rectangular polygon=5.2cm
Perimeter of polygon=12.5cm
No of sides polygon has=12.5cm
No of sides polygon have= $\frac{12.5}{2.5}$
$=\frac{12.5\times10}{2.5\times10}$
=5
Therefore the sides of the polygon is 5
Q13. The product of two decimals is 42.987. If one of them is 12.46, find the other.
We have,
The product of the given decimals=42.987
one decimal=12.46
The other decimal= $\frac{42.987}{12.46}$
=3.45
The number is 3.45
Q14. The weight of 34 bags of sugar is 3483.3 kg. If all bags weigh equally, find the weight of each bag.
Total weight of sugar= 3483.3kg
No of bags= 34
Weight of each bag= $\frac{3483.3}{34}$
=102.45kg
Therefore weight of each bag is 102.45kg
Q15. How many buckets of equal capacity can be filled from 586.5 litres of water, if each bucket has capacity of 8.5 litres?
Capacity of each bucket=805 litres
Total water available=586.5litres

Number of buckets= $\frac{805}{586.5}$ 

$$=\frac{805\times10}{586.5\times10}$$

=69

Total number of buckets is 69