MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

DECIMALS

Example

1. Arrange the digits of 374.568 in the place-value chart.

2. Write the following decimals in ascending order:
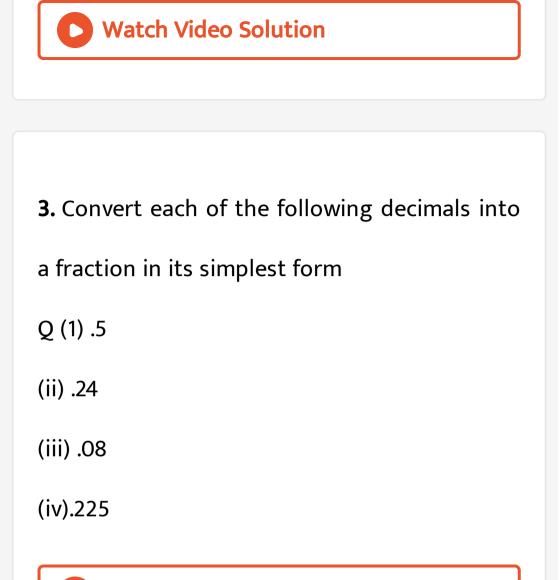
5.74, 6.03, 0.8, 0.658 and 7.2.

    A. 0.8, 0.658, 5.74, 6.03, 7.2.

    B. 0.658, 0.8, 5.74, 6.03, 7.2.

    C. 0.658, 0.8, 6.03, 5.74, 7.2.

    D. None of these

Answer: B

3. Convert each of the following decimals into a fraction in its simplest form

Q (1) .5

(ii) .24

(iii) .08

(iv).225

4. Convert each of the following into a decimal fraction:

Q (i) $\dfrac{27}{4}$

(ii) $2\dfrac{5}{8}$

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5. Express as rupees using decimals:

Q (i) 536 paise

(ii) 65 rupees 78 paise

(iii) 6 rupees 6 paise

(iv) 28 paise

(v) 5 paise

6. Express 5 cm in kilometre.

A. 0.005 km

B. 0.00005 km

C. 500000 km

D. none of these

Answer: B

7. Express in kg using decimals:

60 g

   A. 0.06 kg

   B. 0.6 kg

   C. 0.006 kg

   D. none of these

Answer: A

8. Express in kg using decimals:

a) 7380g

A. 7.080 kg

B. 7.300 kg

C. 7.380 kg

D. 73.80 kg

Answer: C

9. Express in kg using decimals:

6 kg 8 g

A. 6.08 kg

B. 6.8 kg

C. 6.008 kg

D. 68 kg

Answer: C

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Example Addition Of Decimals

1. Add 36.4, 273.06, 9.397 and 68.

    A. 86.857

    B. 3857

    C. 386.857

D. none of these

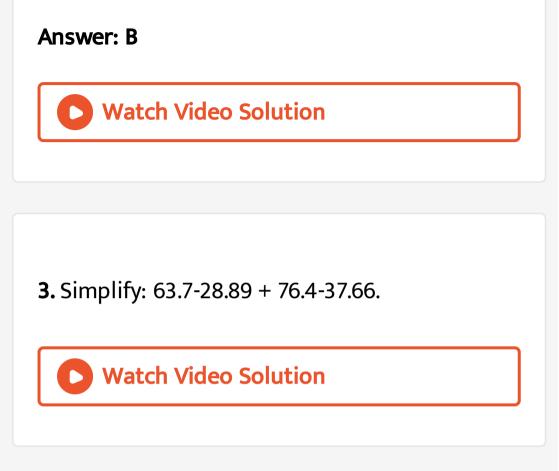**Answer: C**

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2. Subtract 47.56 from 83.2.

A. 35

B. 35.64

C. 30.64

D. none of these

Answer: B

3. Simplify: 63.7-28.89 + 76.4-37.66.

4. How much less is 28.8 km than 42.3 km?

A. 13.5 km

B. 11.5 km

C. 13 km

D. none of these

Answer: A

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5. Shayama bought 4 kg 350 gpotato, 3 kg 80 g tomato and some onion. If the total weight of the three vegetables is 10 kg 200 g, what is the weight of onion?

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1. Find the product:

Q (i)67.24×10

(ii) 4.956×100

(iii) 2.3748×1000

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2. Multiply 35.6 by 1000.

A. 3560

B. 356

C. 0.0356

D. 35600

Answer: D

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3. Multiply 73.68 by 5.4

A. 3978.72

B. 333.872

C. 397.872

D. 3.872

Answer: C

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4. Multiply 0.089 by 0.76.

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5. Multiply 0.0235 by 0.0327

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6. Find the product $0.47x5.3x0.06$

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7. If the cost of a pen is ₹ 28.50, find the cost of 48 such pens.

A. 1500

B. 1368

C. 1300

D. 1360

Answer: C

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8. The cost of 1 metre of ribbon is rs. 35.80. What will be the cost of 9.8 metres of ribbon?

A. 450.84

B. 350.84

C. 360.84

D. 359.84

Answer: B

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9. 1 kg of milk has 0.264 kg of fat. How much fat is there in 12.5 kg of milk?

A. $4.3kg$

B. $1.3kg$

C. $2.3kg$

D. $3.3kg$

Answer: D

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Example Division Of Decimals

1. Divide:

Q (i)16.8 by 10

(ii) 236.4 by 100

(iii) 3709.6 by 1000

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2. Divide:

(i) 0.46 by 10

(ii)2.34 by 100

(iii) 6.28 by 1000

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3. Divide 39.168 by 12.

4. Divide 0.567 by 9

    A. 0.63

    B. 6.3

    C. 0.063

    D. 63

Answer: C

5. Divide 2.32 by 16.

6. Divide 48.38 by 8

A. 6.76

B. 60.475

C. 6.0475

D. 0.60475

Answer: C

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7. Divide 202.4 by 40

A. 5.6

B. 5.06

C. 506

D. 0.506

Answer: B

8. Find the quotient:

(i) 0.018 /0.6

(ii) 0.0018 / 0.09

(iii) 0.196 /1.4

9. A bowler took 15 wickets for 321 runs. What is his average score per wicket?

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10. A car covers a distance of 108.9 km in 1.8 hours. What is the average speed of the car?

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11. The cost of 24 toys of the same kind is Rs 783.60. Find the cost of each toy.

A. 31.65

B. 32.00

C. 32.65

D. 30.65

Answer: C

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12. The total weight of some bags of cement is 1743 kg. If each bag weighs 49.8 kg, how many bags are there?

A. 33

B. 35

C. 36

D. 37

Answer: B

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13. Mr. Thukral distributed rs. 1840 equally among NCC cadetsfor refreshment. If each cadet received rs. 28.75, how many cadets were there?

14. Mrs. Bose bought 15.5 litres of refined oil for RS 1122.20. Find its cost per litre.

A. 76.4

B. 74.4

C. 72.4

D. 70.4

Answer: C

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15. The product of two decimals is 1.5008. If one of them is 0.56, find the other.

A. 2.58

B. 2.68

C. 2.48

D. 2.28

Answer: B

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16. Each side of a polygon is 2.9 cm in length and its perimeter is 17.4 cm. Hold many sides does the polygon have?

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17. Find the average of 4.2, 7.4 and 8.8.

Exercise 3 A

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

(i) .8

(ii) .75

(iii) .06

(iv) .285

2. Convert each of the following as a mixed fraction:

(i) 5.6

(ii) 12.25

(iii) 6.004

(iv) 4.625

3. Convert each of the following into a decimal:

(i) $\dfrac{47}{10}$

(ii) $\dfrac{156}{100}$:

(iii) $\dfrac{2516}{100}$

(iv) $\dfrac{3524}{1000}$

(v) $\dfrac{25}{8}$

(vi) $3\dfrac{2}{5}$

(vii) $2\dfrac{2}{25}$

(viii) $\dfrac{17}{20}$

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4. Convert each of the following into like decimals :

(i) 6.5, 16.03, 0.274, 119.4 :

(ii) 3.5, 0.67, 15.6, 4

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5. Fill in each of the place holders with the correct symbol > or <.

Q 78.23 (...) 69.85

6. Fill in each of the place holders with the correct symbol > or <.

Q 3.406 (...) 3.46

7. Fill in each of the place holders with the correct symbol > or <.

Q 5.68 (...) 5.86

8. Fill in each of the place holders with the correct symbol > or <.

Q 14.05 (...) 14.005

9. Fill in each of the place holders with the correct symbol > or <.

$1.85(\ldots)1.805$

A. $>$

B. $<$

C. $=$

D. none of these

Answer: A

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10. Fill in each of the place holders with the correct symbol > or <.

Q 0.98 (...) 1.07

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11. Arrange the following decimals in ascending order:

Q 4.6, 7.4, 4.58, 7.32, 4.06

Q 0.5, 5.5, 5.05, 0.05, 5.55

Q 6.84, 6.48, 6.8, 6.4, 6.08

Q 2.2, 2.202, 2.02, 22.2, 2.002

12. Arrange in descending order (1)7.4, 8.34, 74.4, 7.44, 0.74

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

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13. Express 45 mm in cm, m and km.

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14. Express as rupees using decimals:

(i) 8 paise

(ii) 9 rupees 75 paise

(iii) 8 rupees 5 paise

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15. Express in km using decimals:

(i) 65m

(ii) 284m

(iii) 3 km 5m

Exercise 3 B Add

1. Add the following 16, 8.7, 0.94, 6.8 and 7.77

2. ADD the following 18.6, 206.37, 8.008, 26.4 and 6.9
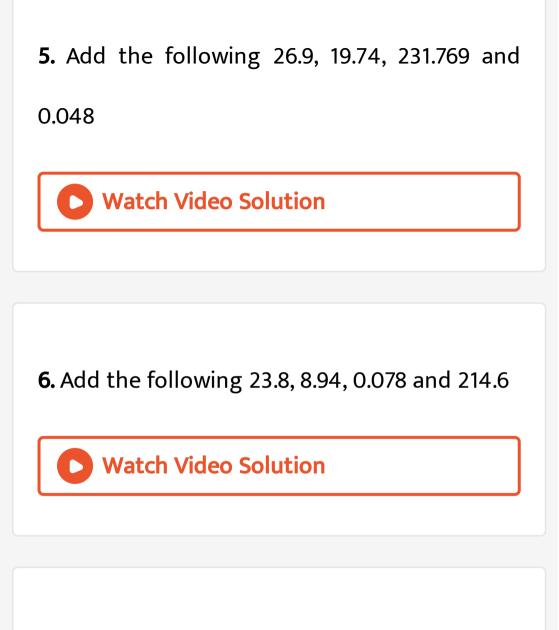
3. Add the following 63.5, 9.7, 0.8, 26.66 and 12.17

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4. Add the following 17.4, 86.39, 9.435, 8.8 and 0.06

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5. Add the following 26.9, 19.74, 231.769 and 0.048

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6. Add the following 23.8, 8.94, 0.078 and 214.6

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7. Add the following 6.606, 66.6, 666, 0.066, 0.66

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8. Add the following 9.09, 0.909, 99.9, 9.99, 0.099

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Exercise 3 B Subtract

1. Subtract 14.79 from 72.43

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2. Subtract 36.74 from 52.6

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3. Subtract 13.876 from 22

▶ **Watch Video Solution**

4. Subtract 15.079 from 24.16

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5. Subtract 0.68 from 1.007

A. 0.27

B. 0.3

C. 0.327

D. none of these

Answer: C

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6. Subtract 0.4678 from 5.05

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7. Subtract 2.5307 from 8

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8. SUBTRACT 6.732 from 9.001

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9. Take out 5.746 from 9.1.

10. What is to be added to 63.58 to get 92?

11. What is to be subtracted from 8.1 to get 0.813?

12. By how much should 32.67 be increased to get 60.1?

13. By how much should 74.3 be decreased to get 26.87?

14. Rohit purchased a notebook for Rs 23.75, a pencil for Rs 2.85 and a pen for Rs 15.90. He gave a 50-rupee note to the shopkeeper. What amount did he get back?

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Exercise 3 C

1. Find the product:

(i) 73.92×10

(ii) 7.54×10

(iii) 84.003×10

(iv) 0.83×10

(v) 0.7×10

(vi) 0.032×10

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2. Find the product:

(i) 2.397×100

(ii) 6.83×100

(iii) 2.9×100

(iv) 0.08×100

(v) 0.6×100

(vi) 0.003×100

3. Find the product:

(i) 6.7314×1000

(ii) 0.182×1000

(iii) 0.076×1000

(iv) 6.25×1000

(v) 4.8×1000

(vi) 0.06×1000

4. Find the product:

(i) 5.4×16

(ii) 3.65×19

Q(iii) 0.854×12

(iv) 36.73×48

(v) $4.125 x 86$

(vi) 104.06×75

(vii) 6.032×124

(viii) 0.0146×69

(ix) 0.00125×327

5. Find the product:

(i) 7.6×2.4

(ii) 3.45×6.3

(iii) 0.54×0.27

(iv) 0.568×4.9

(v) 6.54×0.09

(vi) 3.87×1.25

(vii) 0.06×0.38

(viii) 0.623×0.75

(xi) 0.014×0.46

(x) 54.5×1.76

(xi) 0.045×2.4

(xii) 1.245×6.4

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6. Find the product:

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

(ii) $2.4 \times 1.5 \times 2.5$

(iii) $0.8 \times 3.5 \times 0.05$

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

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

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

7. Evaluate:

(i) $(1.0)^2$

(ii) $(0.7)^2$

(iii) $(0.04)^2$

(iv) $(0.11)^2$

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8. Evaluate:

(i) $(0.3)^2$

(ii) $(0.05)^2$

(iii) $(1.5)^2$

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9. A bus can cover 62.5 km in one hour. How much distance can it cover in 18 hours?

A. 1135km

B. 1145km

C. 2125km

D. 1125km

Answer: D

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10. A tin of oil weighs 16.8 kg. What is the weight of 45 such tins?

A. 8556 kg

B. 756 kg

C. 7566 kg

D. 7756 kg

Answer: B

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11. A bag of wheat weighs 97.8 kg. How much wheat is contained in 500 such bags?

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12. Find the weight of 16 bags of sugar, each weighing 48.450 kg.

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13. A small bottle holds 0.845 kg of sauce. How much sauce will be there in 72 such bottles?

14. A bottle holds 925 g of jam. How many kg of jam will be there in 25 such bottles?

15. If one drum can hold 16.850 litres of oil, how many litres can 48 such drums hold?

16. 1 kg of rice costs Rs. 56.80. What is the cost of 16.25 kg of rice?

17. 1 metre of cloth costsRs.? 108.50. What is the cost of 18.5 metres of this cloth?

18. A car can cover a distance of 8.6 km on one litre of petrol. How far can it go on 36.5 litres of petrol?

19. A taxi driver charges Rs. 9.80 per km. How much will he charge for a journey of 106.5 km?

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Exercise 3 D

1. Divide:

(i) 131.6 by 10

(ii) 32.56 by 10

(iii) 4.38 by 10

(iv) 0.34 by 10

(v) 0.08 by 10

(vi) 0.062 by 10

2. Divide:

(i) 137.2 by 100

(ii) 23.4 by

(iii) 4.7 by 100

(iv) 0.3 by 100

(v) 0.58 by 100

(vi) 0.02 by 100

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3. Divide:

(i) 1286.5 by 1000

(ii) 354.16 by 1000

(iii) 38.9 by 1000

(iv) 4.6 by 1000

(v) 0.8 by 1000

(vi) 2 by 1000

4. Divide:

(i) 12 by 8

(ii) 63 by 15

(iii) 47 by 20

(iv) 101 by 25

(v) 31 by 40

(vi) 11 by 16

5. Divide:

(i) 43.2 by 6

(ii) 60.48 by 12

(iii) 117.6 by 21

(iv) 217.44 by 18

(v) 2.575 by 25

(vi) 6.08 by 8

(vii) 0.765 by 9

(viii) 0.768 by 16

(ix) 0.175 by 25

(x) 0.3322 by 11

(xi) 2.13 by 15

(xii) 6.54 by 12

(xiii) 5.52 by 16

(xiv) 1.001 by 14

(xv) 0.477 by 18

6. Divide:

(i) 16.46/20

(ii) 403.8/ 30

(iii) 19.2/80

(iv) 156.8 /200

(v) 12.8/500

(vi) 18.08/ 400

7. Divide:

(i) 3.28 by 0.8

(ii) 0.288 by 0.9

(iii) 25.395 by 1.5

(iv) 2.0484 by 0.18

(v) 0.228 by 0.38

(vi) 0.8085 by 0.35:

(vii) 21.976 by 1.64

(viii) 11.04 by 1.6

(ix) 6.612 by 11.6

(x) 0.076 by 0.19

(xi) 148 by 0.074

(xii) 16.578 by 5.4

(xiii) 28 by 0.56

(xiv) 204 by 0.17

(xv) 3 by 80

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8. The total cost of 24 chairs is Rs. 9255.60. Find the cost of each chair.

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9. 1.8 m of cloth is required for a shirt. How many such shirts can be made from a piece of cloth 45 m long?

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10. A car covers a distance of 22.8 km in 2.4 litres of petrol. How much distance will it cover in 1 litre of petrol?

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11. A tin holds 16.5 litres of oil. How many such tins will be required to hold 478.5 litres of oil?

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12. The weight of 37 bags of sugar is 3644.5 kg. If all the bags weigh equally what is the weight of each bag ?

    A. 98.5kg

    B. 96.5kg

    C. 80.5kg

    D. 90.5kg

Answer: A

13. If 69 buckets of equal capacity can be filled with 586.5 litres of water, what is the capacity of each bucket?

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14. Monica cuts 46 m of cloth into pieces of 1.15 m each. How many pieces does she get?

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15. Mr Soni bought some bags of cement, each weighing 49.8 kg. If the total weight of all the bags is 1792.8 kg, how many bags did he buy?

A. 16 bags

B. 26 bags

C. 36 bags

D. 46 bags

Answer: C

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16. How many pieces of plywood, each 0.35 cm thick, are required to make a pile 1.89 m high?

Hint. 1.89 m = (1.89x100) cm = 189 cm.

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17. The product of two decimals is 261.36. If one of them is 17.6, find the other.

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Exercise 3 E Objective Questions

1. Convert into fraction .06 = ?

A. -1

B. $\dfrac{3}{50}$

C. $\dfrac{18}{300}$

D. none of these

Answer: B

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2. EXPRESS in fraction 1.04 = ?

A. $1\dfrac{1}{5}$

B. $1\dfrac{2}{5}$

C. $1\dfrac{1}{25}$

D. none of these

Answer: C

3. Express in decimal form $2\dfrac{2}{25} = \ ?$

A. 2.8

B. 2.8

C. 2.008

D. none of these

Answer: B

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4. EXPRESS in km using decimal 6 cm = ?

A. 0.006 km

B. 0.0006 km

C. 0.000006 km

D. none of these

Answer: D

5. EXPRESS in kg using decimal 70g= ?

A. 0.7 kg

B. 0.07 kg

C. 0.007 kg

D. none of these

Answer: B

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6. EXPRESS in kg using decimal 5 kg 6 g = ?

A. 5.0006 kg

B. 5.06 kg

C. 5.006 kg

D. 5.6 kg

Answer: C

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7. EXPRESS in km using decimal 2 km 5 m = ?

A. 2.5 km

B. 2.05 km

C. 2.005 km

D. 2.0005 km

Answer: C

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8. Subtract (1.007-0.7) = ?

A. 1

B. 0.37

C. 0.307

D. none of these

Answer: C

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9. What should be subtracted from . 1 to get .03?

A. 0.7

B. 0.07

C. 0.007

D. none of these

Answer: B

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10. What should be added to 3.07 to get 3.5?

A. 0.57

B. 0.430

C. 0.43

D. 0.02

Answer: C

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11. $0.23 \times 0.3 = ?$

A. 0.69

B. 6.9

C. 0.069

D. none of these

Answer: C

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12. $0.02 \times 30 = ?$

A. 6

B. 0.6

C. 0.06

D. none of these

Answer: B

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13. $0.25 \times 0.8 = ?$

A. 0.20

B. 0.2

C. 0.002

D. 2

Answer: B

14. $0.4 \times 0.4 \times 0.4 = ?$

A. 6.4

B. 0.64

C. 0.064

D. none of these

Answer: C

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15. $1.1 \times .1 \times .01 = ?$

A. 0.011

B. 0.0011

C. 0.11

D. none of these

Answer: B

16. 2.08+ (.16) = ?

A. 13

B. 0.13

C. 1.3

D. none of these

Answer: A

17. 1.02 + 6 = ?

A. 1.7

B. 0.17

C. 0.017

D. none of these

Answer: B

18. 30.94 + 0.7 = ?

A. 44.2

B. 4.42

C. 442

D. 0.442

Answer: A

19. 2.73 + 1.3 = ?

A. 21

B. 2.1

C. 0.21

D. none of these

Answer: B

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20. 89.1 + 2.2 = ?

A. 91.3

B. 4.05

C. 41

D. 41.5

Answer: A

21. 0.5x0.05 = ?

A. 0.0250

B. 2.5

C. 0.025

D. none of these

Answer: C

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Test Paper 3 A

1. If the cost of a pen is rs. 32.50, find the cost of 24 such pens.

2. A bus can cover 64.5 km in an hour. How much distance can it cover in 18 hours?

3. Find the product $0.68 \times 6.5 \times 0.04$.

4. Each bag of cement weighs 48.5 kg. How many such bags will weigh 2231 kg?

A. 44

B. 46

C. 48

D. 50

Answer: B

▶

5. Divide

(i) 0.196 by 1.4

(ii) 39.168 by 1.2

(iii) 0.228 by 0.38

6. The product of two decimals is 1.824. If one of them is 0.64, find the other.

7. How many pieces of plywood, each 0.45 cm thick, are required to make a pile 2.43 m high?

A. 480

B. 520

C. 540

D. 500

Answer: C

8. Each side of a polygon is 3.8 cm in length and its perimeter is 22.8 cm. How many sides does the polygon have?

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Test Paper 3 B

1. Convert into decimal $2\dfrac{1}{25}$

A. 2.4

B. 2.04

C. 2.004

D. none of these

Answer: B

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2. Convert into mixed fraction $1.008 = ?$

A. $1\dfrac{2}{25}$

B. $1\dfrac{1}{125}$

C. $1\dfrac{2}{125}$

D. none of these

Answer: B

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3. Convert into kg

2 kg 5 g = ?

A. 2.5 kg

B. 2.05 kg

C. 2.005 kg

D. none of these

Answer: C

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4. $0.0124 \div 0.15 = ?$

A. 0.82

B. 0.082

C. 0.0082

D. none of these

Answer: B

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5. $1.1 \times .1 \times .01 = ?$
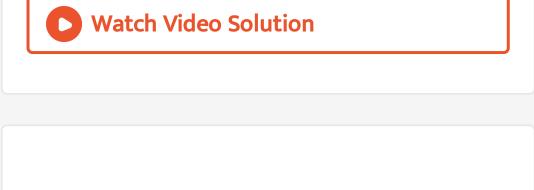
A. 0.11

B. 0.011

C. 0.00011

D. none of these

Answer: C

6. 4.669 / 2.3 = ?

A. 2.3

B. 2.03

C. 2.003

D. none of these

Answer: B

7. What should be added to 2.06 to get 3.1?

A. 1.4

B. 1.24

C. 1.04

D. none of these

Answer: C

8. What should be subtracted from .1 to get .04?

    A. 0.060

    B. 0.06

    C. 0.006

    D. none of these

Answer: B

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1. Fill in the blanks.

Q 1.0014/14 =......

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2. Fill in the blanks.

Q 204 /0.17 = ...

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3. Fill in the blanks.

Q $0.47 \times 5.3 = \ldots$

4. Fill in the blanks.

$0.023 \times 0.03 = \ldots$

A. 0.0069

B. 0.00069

C. 6.9

D. none of these

Answer: B

5. Fill in the blanks.

$Q\ (0.7)^2 = \ldots$
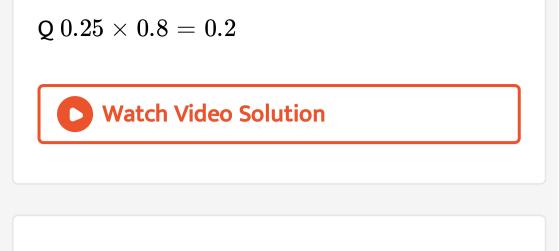
6. Fill in the blanks.

$Q\ (0.5)^2 = \ldots$

▶

Test Paper 3 D

1. Write 'T'for true and 'F' for false for each of the following:

Q $0.5 \times 0.05 = 0.25$

2. Write 'T'for true and 'F' for false for each of the following:

Q $0.25 \times 0.8 = 0.2$

3. Write 'T'for true and 'F' for false for each of the following:

Q 0.35 / 0.7 = 0.5

4. Write 'T'for true and 'F' for false for each of the following:

Q $.4 \times .4 \times .4 = 0.64$

5. Write 'T'for true and 'F' for false for each of

the following:

Q 6 cm = 0.06 m