MATHS

BOOKS - SWAN PUBLICATION

FRACTIONS AND DECIMALS

Exercise 2 1

1. Solve the following fractions :

$$4 + \frac{7}{8}$$

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2. Solve the following fractions :

$$\frac{9}{11} - \frac{4}{15}$$

3. Solve the following fractions :

$$\frac{11}{16} - \frac{2}{5} + \frac{8}{10}$$

4. Solve the following fractions :

$$2\frac{1}{5} + 6\frac{1}{2}$$

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5. Solve the following fractions :

$$8\frac{1}{2} - 3\frac{5}{8}$$

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6. Solve the following fractions :

$$\frac{9}{10} - \frac{9}{100} + \frac{9}{1000}$$

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7. Arrange the following in ascending order :

$$\frac{2}{17}, \frac{10}{17}, \frac{3}{17}, \frac{16}{17}, \frac{5}{17}, \frac{8}{17}$$

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8. Arrange the following in ascending order :

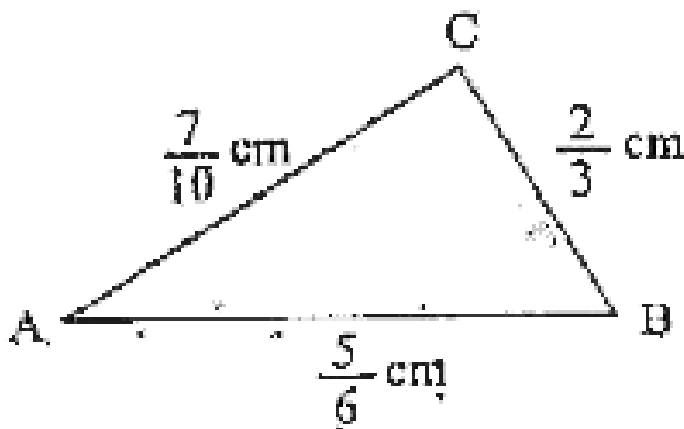$$\frac{1}{5}, \frac{3}{7}, \frac{7}{10}$$

9. The three sides AB,BC and CA of a triangle ΔABC are $\frac{5}{6}cm, \frac{2}{3}cm$ and $\frac{7}{10}$ cm
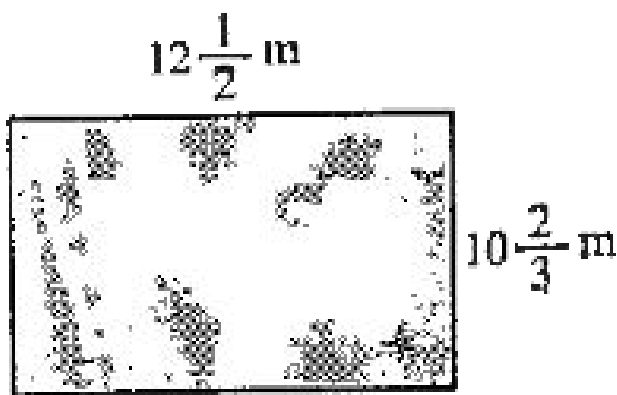
respectively. Find the permeter of the triangle.

10. Ramesh studies for $5\dfrac{2}{3}$ hours daily. He devotes $2\dfrac{4}{5}$ hours of his time for science and mathematics. How much time does he devotes for other subjects?

11. Sonia jogs once around the rectangular park of sides $10\frac{2}{3}$ m and $12\frac{1}{2}$ m Find the total distance covered by the Sonia.

12. Ritu coloured a picture in $\dfrac{7}{12}$ hours. Vaibhav coloured tlie same picture in $\dfrac{3}{4}$ hours. Who worked for a longer time and by what fraction ?

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Exercise 2 1 Multiple Choice Questions

1. Fractions $\dfrac{2}{5}, \dfrac{7}{5}$ are

A. Like fractions

B. Unlike fractions

C. Equivalent fractions

D. None of these

Answer: A

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2. What fraction do 8 hours of a day represents

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

B. $\dfrac{1}{3}$

C. $\dfrac{8}{60}$

D. $\dfrac{2}{3}$

Answer: B

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3. Equivalent fraction of $\dfrac{3}{5}$ is ....

A. $\dfrac{13}{15}$

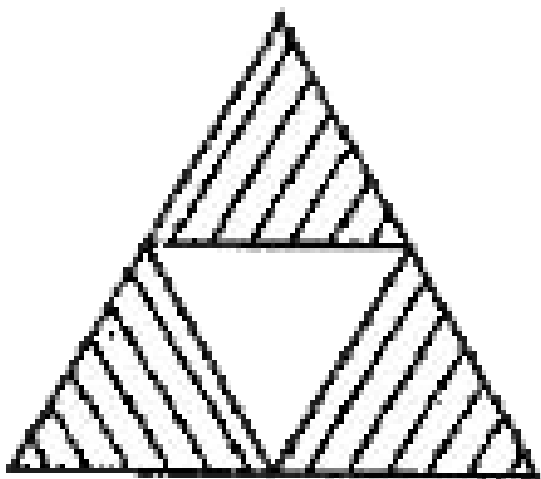B. $\dfrac{5}{3}$

C. $\dfrac{9}{15}$

D. $\dfrac{5}{13}$

Answer: C

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4. Shaded area of given triangle represents the fraction

A. $\dfrac{1}{3}$

B. $\dfrac{3}{4}$

C. $\dfrac{1}{4}$

D. $\dfrac{2}{3}$

Answer: B

5. Sum of fractions $\dfrac{2}{7}$ and $\dfrac{3}{4}$ is equal to :

A. $\dfrac{5}{28}$

B. $\dfrac{1}{3}$

C. $\dfrac{5}{11}$

D. $\dfrac{29}{28}$
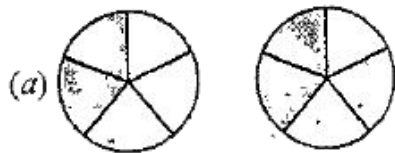
Answer: D

1. Match the following :

(a)

(i) $3 \times \dfrac{1}{4}$

(b)

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

(c)

(iii) $3 \times \dfrac{2}{3}$

(d)

(iv) $2 \times \dfrac{1}{2}$

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2. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$4 \times \frac{1}{3}$$

3. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$11 \times \frac{4}{7}$$

4. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$\frac{3}{4} \times 6$$

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5. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into

a mixed fraction :

$$\frac{9}{7} \times 5$$

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6. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$\frac{5}{3} \times 4$$

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7. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$\frac{5}{3} \times 5$$

8. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$5 \times 6\frac{3}{4}$$

9. Multiple whole number to a fraction and reduce it to the lowest form. Also convert into a mixed fraction :

$$3\frac{2}{5} \times 8$$

10. Solve : $\dfrac{1}{23}$ of 46

11. Solve : $\dfrac{2}{3}$ of 27

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12. Solve : $\dfrac{1}{3}$ of 36

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13. Solve : $\dfrac{3}{8}$ of 16

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14. Solve : $\dfrac{5}{7}$ of 35

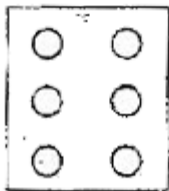**15.** Shade : $\dfrac{1}{3}$ of the rectangles in box (a)

(ii) $\dfrac{2}{3}$ of the circles in box (b)

(iii) $\dfrac{1}{2}$ of the triangles in box (c)

(a)   (b)   (c)
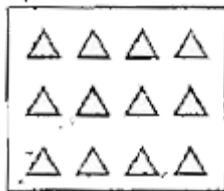
16. Rahul earns Rs 44,000 per month. He spends $\dfrac{3}{4}$ th of his income everymonth and saves the rest of his earning. Find his monthly savings.

17. The cost of a book is Rs $117\dfrac{1}{2}$. Find the cost of 8 books.

18. $\dfrac{1}{2} \times 8$ is equal to

A. 8

B. 2

C. 4

D. 1

Answer: c

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19. $\dfrac{3}{2}$ of 16 is

A. 48

B. 8

C. 3

D. 24

Answer: d

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20. What fraction of an hour is 40 minutes?

A. $\dfrac{2}{3}$

B. 40

C. $\dfrac{1}{4}$

D. $\dfrac{1}{2}$

Answer: a

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21. What fraction does the shaded part of figure represent ?
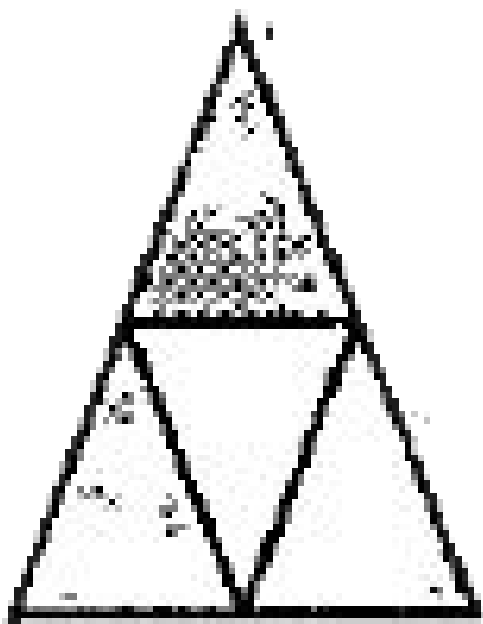
A. $\dfrac{1}{3}$

B. $\dfrac{2}{3}$

C. $\dfrac{3}{4}$

D. $\dfrac{1}{2}$

Answer: c

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Exercise 2 3

1. Solve the following :

$\dfrac{1}{3}$ of

(a) $\dfrac{1}{5}$ (b) $\dfrac{2}{7}$ (c) $\dfrac{3}{2}$

2. Solve the following :

$\dfrac{3}{4}$ of

(a) $\dfrac{2}{9}$ (b) $\dfrac{4}{7}$ (c) $\dfrac{8}{3}$

3. Multiply the fractions and reduce it to the

lowest form (If possible)

$\dfrac{2}{7} \times \dfrac{7}{9}$

4. Multiply the fractions and reduce it to the lowest form (If possible)

$$\frac{1}{3} \times \frac{15}{8}$$

5. Multiply the fractions and reduce it to the lowest form (If possible)

$$\frac{12}{27} \times \frac{3}{9}$$

6. Multiply the fractions and reduce it to the lowest form (If possible)

$$\frac{2}{5} \times \frac{6}{4}$$

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7. Multiply the fractions and reduce it to the lowest form (If possible)

$$\frac{81}{100} \times \frac{6}{7}$$

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8. Multiply the fractions and reduce it to the lowest form (If possible)

$$\frac{3}{5} \times \frac{5}{27}$$

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9. Multiply the following fractions :

$$\frac{3}{5} \times 5\frac{1}{3}$$

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10. Multiply the following fractions :

$$\frac{1}{7} \times 5\frac{2}{3}$$

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11. Multiply the following fractions :

$$2\frac{5}{6} \times 4$$

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12. Multiply the following fractions :

$$4\frac{1}{3} \times 9\frac{1}{4}$$

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13. Multiply the following fractions :

$$2\frac{2}{3} \times 3\frac{5}{8}$$

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14. Multiply the following fractions :

$$3\dfrac{1}{5} \times 2\dfrac{1}{4}$$

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15. Which fraction is greater in the following fractions.

$$\dfrac{3}{2} \text{ of } \dfrac{2}{7} \text{ or } \dfrac{5}{2} \text{ of } \dfrac{3}{8}$$

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16. Which fraction is greater in the following fractions.

$\frac{1}{2}$ of $\frac{6}{5}$ or $\frac{1}{3}$ of $\frac{4}{5}$

17. If the speed of a car is $105\frac{1}{3} km/hr$, find the distance covered by it in $3\frac{2}{3}$ hours.

18. The length of a rectangular plot of land is $29\dfrac{3}{7}$ m. If its breadth is $12\dfrac{8}{11}$ m, find its area.

19. If a cloth costs Rs $120\dfrac{1}{4}$ per metre, find the cost of $4\dfrac{1}{3}$ metre of this cloth.

20. Check if the following equations are 'True' or 'False': $1\dfrac{2}{3} \times 4\dfrac{5}{7} = 4\dfrac{10}{21}$?

21. Check if the following equations are 'True' or 'False' :

$\dfrac{3}{4} \times \dfrac{2}{3} = \dfrac{2}{3} \times \dfrac{3}{4}$?

Exercise 2 3 Multiple Choice Questions

1. $\dfrac{1}{4}$ of $\dfrac{8}{3}$ is

A. $\dfrac{9}{7}$

B. $\dfrac{8}{4}$

C. $\dfrac{2}{3}$

D. 1

Answer: C

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2. $\dfrac{3}{2} \times \dfrac{2}{3} = ?$

A. 1

B. $\dfrac{5}{6}$

C. 3

D. $\dfrac{6}{5}$

Answer: A

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3. The value of the product of two proper fractions is :

    A. greater than both the proper fraction.

    B. lesser than both the proper fraction

    C. lie between the given two fractions.

    D. none of these

Answer: B

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1. Find the reciprocal of each of the following fraction.

$$\frac{2}{7}$$

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2. Find the reciprocal of each of the following fraction.

$$\frac{3}{2}$$

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3. Find the reciprocal of each of the following fraction.

$$\frac{5}{7}$$

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4. Find the reciprocal of each of the following fraction.

$$\frac{1}{9}$$

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5. Find the reciprocal of each of the following fraction.

$$\frac{2}{3}$$

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6. Find the reciprocal of each of the following fraction.

$$\frac{7}{8}$$

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7. Solve the following (Division of a fraction by a non zero whole number)

$$\frac{19}{6} + 10$$

8. Solve the following (Division of a fraction by a non zero whole number)

$$\frac{4}{9} + 5$$

9. Solve the following (Division of a fraction by a non zero whole number)

$$\frac{8}{9} + 8$$

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10. Solve the following (Division of a fraction by a non zero whole number)

$$3\frac{1}{2} + 4$$

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11. Solve the following (Division of a fraction by a non zero whole number)

$$16\frac{1}{2} \div 5$$

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12. Solve the following (Division of a fraction by a non zero whole number)

$$4\frac{1}{3} \div 3$$

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13. Solve the following (Division of a whole number by a fraction)

$$8 + \frac{7}{3}$$

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14. Solve the following (Division of a whole number by a fraction)

$$5 + \frac{7}{5}$$

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15. Solve the following (Division of a whole number by a fraction)

$$4 \div \frac{8}{3}$$

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16. Solve the following (Division of a whole number by a fraction)

$$3 \div 2\frac{3}{5}$$

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17. Solve the following (Division of a whole number by a fraction)

$$5 \div 3\frac{4}{7}$$

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18. Solve the following (Division of a fraction by another fraction)

$$\frac{2}{3} \div \frac{10}{9}$$

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19. Solve the following (Division of a fraction by another fraction)

$$\frac{4}{9} + \frac{2}{3}$$

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20. Solve the following (Division of a fraction by another fraction)

$$2\frac{1}{2} + \frac{3}{5}$$

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21. Solve the following (Division of a fraction by another fraction)

$$\frac{3}{7} + 1\frac{1}{5}$$

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22. Solve the following (Division of a fraction by another fraction)

$$5\frac{1}{2} + 2\frac{1}{5}$$

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23. Solve the following (Division of a fraction by another fraction)

$$3\frac{1}{5} \div 1\frac{2}{3}$$

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24. 11 small ropes are cut from $7\frac{1}{3}$ m long rope. Find the length of each of the small rope.

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25. true or false : The reciprocal of a proper fraction is an improper fraction.

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26. The reciprocal of a whole number is always a whole number.

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Exercise 2 4 Multiple Choice Questions

1. Reciprocal of $\dfrac{3}{4}$ is

A. $\dfrac{3}{4}$

B. $\dfrac{4}{3}$

C. 1

D. none of these

Answer: B

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2. $\dfrac{5}{7} + \dfrac{7}{5} = ?$

A. 1

B. $\dfrac{49}{25}$

C. $\dfrac{25}{49}$

D. -1

Answer: C

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3. $\dfrac{5}{7} + \dfrac{5}{7} = \,$?

A. 1

B. $\dfrac{10}{7}$

C. $\dfrac{25}{49}$

D. -1

Answer: A

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Exercise 2 5

1. Which is greater decimal number ?

0.9 or 0.4

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2. Which is greater decimal number ?

1.35 or 1.37

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3. Which is greater decimal number ?

10.10 or 10.01

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4. Which is greater decimal number ?

1735.101 or 1734. 101

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5. Which is greater decimal number ?

0.8 or 0.88

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6. Write the following decimal number in the expanded form :

40.38

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7. Write the following decimal number in the expanded form :

4.038

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8. Write the following decimal number in the expanded form :

0.4038

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9. Write the following decimal number in the expanded form :

4.38

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10. Write the place value of 5 in the following decimal numbers :

17.56

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11. Write the place value of 5 in the following decimal numbers :

1.253

12. Write the place value of 5 in the following decimal numbers :

10.25

13. Write the place value of 5 in the following decimal numbers :

5.62

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14. Express in rupees using decimals :

55 paise

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15. Express in rupees using decimals :

55 rupees 5 paise

16. Express in rupees using decimals :

347 paise

17. Express in rupees using decimals :

2 paise

18. Express in km : 350 m

19. Express in km : 4035 m

20. Express in km : 2 km 5m

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Exercise 2 5 Multiple Choice Questions

1. Place value of 2 in 3.02 is

    A. 2

    B. 20

C. $\dfrac{2}{10}$

D. $\dfrac{2}{100}$

Answer: D

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2. The correct ascending order of 0.7, 0.07, 7 is

    A. $7 < 0.07 < 0.7$

    B. $0.07 < 0.7 < 7$

    C. $0.7 < 0.07 < 7$

D. $0.07 < 7 < 0.7$

Answer: B

3. Decimal expression of 5 kg 20 gram is

A. 5.2 kg

B. 5.20 kg

C. 5.02 kg

D. none of these

Answer: C

4. Expanded form of 2.38 is

A. $2 + \dfrac{38}{10}$

B. $2 + 3 + \dfrac{8}{10}$

C. $\dfrac{238}{100}$

D. $2 + \dfrac{3}{10} + \dfrac{8}{100}$

Answer: D

Exercise 2 6

1. Find the product of each of the following :

1.31×10

2. Find the product of each of the following :

25.7×10

3. Find the product of each of the following :

1.01×100

4. Find the product of each of the following :

0.45×100

5. Find the product of each of the following :

9.7×100

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6. Find the product of each of the following :

3.87×10

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7. Find the product of each of the following :

0.07×10

8. Find the product of each of the following :

0.3×100

9. Find the product of each of the following :

53.7×1000

10. Find the product of each of the following :

0.02×1000

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11. Find the product of each of the following :

1.5×3

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12. Find the product of each of the following :

2.71×12

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13. Find the product of each of the following :

7.05×4

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14. Find the product of each of the following :

0.05×12

15. Find the product of each of the following :

112.03×8

16. Find the product of each of the following :

3×7.53

17. Evaluate the following :

3.7×0.4

18. Evaluate the following :

2.75×1.1

19. Evaluate the following :

0.07×1.9

20. Evaluate the following :

0.5×31.83

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21. Evaluate the following :

7.5×5.7

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22. Evaluate the following :

10.02×1.02

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23. Evaluate the following :

0.08×0.53

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24. Evaluate the following :

21.12×1.21

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25. Evaluate the following :

1.06×0.04

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26. A piece of wire is divided into 15 equal parts. If length of one part is 2.03m, then find the total length of the wire.

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27. The cost of 1 meter cloth is Rs 75.80. Find the cost of 4.75 metres cloth.

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28. The product of a decimal number and zero is always zero.

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29. To multiply decimal number by 10 move decimal point to the left by one place.

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Exercise 2 6 Multiple Choice Questions

1. $1.25 \times 10 = ?$

A. 0.125

B. 125

C. 12.5

D. 1.25

Answer: C

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2. If $x \times 100 = 135.72$ then value of x is equal to

    A. 13.572

    B. 1.3572

    C. 135.72

    D. 13572

Answer: B

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3. The value of 1.5×8 is

A. 1.2

B. 120

C. 12

D. 0.12

Answer: C

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Exercise 2 7

1. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$2.7 \div 10$

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2. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$3.35 \div 10$

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3. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$0.15 \div 10$

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4. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$32.7 \div 10$

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5. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$5.72 \div 100$

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6. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$23.75 \div 100$

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7. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$532.73 \div 100$

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8. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$1.321 \div 100$

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9. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$2.5 \div 1000$

▶ **Watch Video Solution**

10. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$53.83 \div 1000$

▶ **Watch Video Solution**

11. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$217.35 \div 1000$

▶ **Watch Video Solution**

12. Solve, dividing decimal number by 10, 100 or 1000 in the following.

$0.2 \div 1000$

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13. Solve, dividing decimal number by whole number.

$7.5 \div 5$

▶ **Watch Video Solution**

14. Solve, dividing decimal number by whole number.

$16.9 \div 13$

▶ **Watch Video Solution**

15. Solve, dividing decimal number by whole number.

$65.4 \div 6$

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16. Solve, dividing decimal number by whole number.

$0.121 \div 11$

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17. Solve, dividing decimal number by whole number.

$11.84 \div 4$

▶ Watch Video Solution

18. Solve, dividing decimal number by whole number.

$47.6 \div 7$

▶ Watch Video Solution

19. Solve, dividing the decimal number by decimal number

$3.25 \div 0.5$

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20. Solve, dividing the decimal number by decimal number

$5.4 \div 1.2$

▶ **Watch Video Solution**

21. Solve, dividing the decimal number by decimal number

$12.321 \div 11.1$

22. Solve, dividing the decimal number by decimal number

$2.73 \div 1.3$

23. Solve, dividing the decimal number by decimal number

$2.73 \div 1.3$

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24. Solve, dividing the decimal number by decimal number

$0.0018 \div 0.15$

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25. 25 steel chairs were purchased by a school for Rs 11,883.75. Find the cost of one steel chair.

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26. A car covers a distance of 276.75 km in 4.5 hours. What is the average speed of the car ?

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27. On dividing a decimal number by 100, the decimal point is shifted to the left by one place.

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1. $27.5 \div 10 = ?$

A. 275

B. 0.275

C. 2.75

D. none of these

Answer: C

2. The value of $1.5 \div 3$ is

A. 5

B. 0.05

C. 0.5

D. 4.5

Answer: C

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3. The average of decimal numbers 1.1, 2.1 and
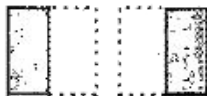
3.1 is

A. 2.5

B. 1.1

C. 2.1

D. 6.3

Answer: C

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1. Which of the following shows $2 \times \dfrac{1}{5}$?

A.

B.

C.

D.

Answer: D

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2. Which of the following is a proper fraction ?

A. $\dfrac{15}{14}$
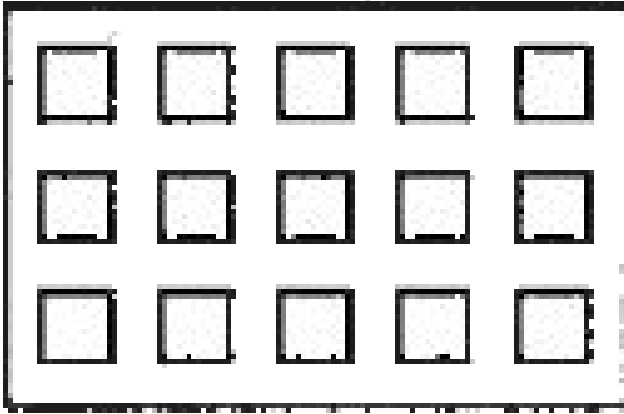
B. $\dfrac{29}{11}$

C. $\dfrac{21}{23}$

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

Answer: C

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3.

In above $\dfrac{3}{5}$ of squares is :

A. 6

B. 9

C. 3

D. 12

Answer: B

4. Which is the smallest number in following?

A. 2.3×0.001

B. 23×0.001

C. 0.23×0.001

D. 230×0.001

Answer: C

5. 235 paise expressed in rupes will be :

A. Rs 23. 5

B. Rs 0.235

C. Rs 2.35

D. Rs 235.0

Answer: C

6. Which is smallest ?

    A. $231 \div 10$

    B. $231.5 \div 100$

    C. $231.5 \div 1000$

    D. $231.5 \div 10000$

Answer: D

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7. Find the average of 4.2, 3.8 and 7.6.

A. 7.6

B. 4.2

C. 3.8

D. 5.2

Answer: D

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8. Which is correct for $128.9 \div 1000$?

A. 128900

B. 0.1289

C. 1.289

D. 12.89

Answer: B

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9. 9.4 kg 9 gm converted in kg is

A. 4.8 kg

B. 4.08 kg

C. 4.008 kg

D. 4.0008 kg

Answer: C

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10. How much less is 28 km than 42.6 km?

A. 70.6 km

B. 13. 6 km

C. 14.6 km

D. 12.6 km

Answer: C

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11. Out of following which is an improper fraction?

A. $\dfrac{3}{7}$

B. $\dfrac{8}{9}$

C. $\dfrac{11}{100}$

D. $\dfrac{7}{3}$

Answer: D

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12. Which fraction is equivalent to $\dfrac{12}{18}$?

A. $\dfrac{1}{3}$

B. $\dfrac{4}{3}$

C. $\dfrac{2}{3}$

D. $\dfrac{5}{3}$

Answer: C

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13. The value of `(7)/(12)+(1)/(6)+(5)/(4) is :

A. $\dfrac{13}{12}$

B. $\dfrac{13}{22}$

C. 2

D. $\dfrac{25}{12}$

Answer: C

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14. Lowest form of $\dfrac{-102}{119}$ is :

A. $\dfrac{-6}{17}$

B. $\dfrac{-6}{7}$

C. $\dfrac{-4}{7}$

D. $\dfrac{-5}{7}$

Answer: B

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15. If the product of fraction $\dfrac{-6}{13}$ with a number is 30. Then number will be :

A. $\dfrac{1}{65}$

B. 65

C. -65

D. $-\dfrac{1}{65}$

Answer: C

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Other Important Questions Fill In The Blanks

1. A Fraction whose numerator is greater than

its denominator is called an ....

2. The fractions having same denominators are called..........fractions.

3. For a fraction, Fraction × . . . . =1

4. On multiplying a decimal number by 10, the decimal point is shifted to the .... By one place.

5. On dividing a decimal number by 100, the decimal point is shifted to the .... by two places.

6. Two or more fractions having .... Denominator are called unlike fractions.

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7. To divide a fraction by another fraction, we multiply the first fraction by the .... of the other fraction.

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8. Reciprocal of a fraction is also called .... of the fraction.

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1. A fraction whose denominator is 10, 100, 1000,............ is callled a simple fraction.

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2. Equivalent fraction represent same part of a

whole.

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3. Fraction is a number that represents part of

a whole.

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4. To multiple a whole number by a proper or improper fraction, we multiple the denominator of fraction with the whole number.

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5. The value of product of two proper fractions is greater than each of the given fraction.

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6. Reciprocal of a fraction is a fraction obtained by interchanging the places of numerator and denominator.

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7. On dividing a decimal number by 1000 the decimal point is shifted to the right by three places.

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8. Product of fractions

$$= \dfrac{\text{Product of their numerators}}{\text{Product of their denominators}}$$

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