



## MATHS

### BOOKS - S CHAND IIT JEE FOUNDATION

#### DECIMALS

#### Solved Examples

1. The value of

$(4.7 \times 13.26 + 4.7 \times 9.43 + 4.7 \times 77.31)$  is:

(a) 0.47 (b) 47 (c) 470 (d) 4700



2. Which pair of operation will make the equation below true when inserted into the blank spaces in the order shown ?

$$2\frac{3}{10} \quad \underline{\quad} 1.5 \quad \underline{\quad} 2 = 1.8$$

A.  $-$  and  $-$

B.  $\times$  and  $+$

C.  $+$  and  $-$

D.  $\times$  and  $-$

**Answer:**



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3. Simplify : 
$$\frac{0.2 \times 0.2 + 0.2 \times 0.02}{0.044}$$



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4. Evaluate : 
$$\frac{0.0203 \times 2.92}{0.0073 \times 14.5 \times 0.7}$$



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5. Simplify :

$$8.7 - [7.6 - \{6.5 - (5.4 - (4.3 - 2))\}]$$



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6. In the expression

$$2.5 + 0.05 - [1.6 - \{3.2 - (3.2 + 2.1 \div x)\}] = 0.65$$

find the value of  $x$  .



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7. Convert

0.89



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**8. Convert**

4.172 into fraction



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**9. Convert**

6.2797 to vulgar fractions .



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**10. Simplify :  $0.4 + 0.61 + 0.11 - 0.36$**



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11. Which of the following numbers 0.1, 0.11,  $(0.11)^2$ ,  $\sqrt{0.001}$  is the greatest ?



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12. What is  $0.09 \times 7.3$  equal to ?



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[Question Bank](#)

1. If the numbers  $\frac{4}{5}$ , 81 % and 0.801 are arranged from smallest to largest, the correct order is :

A.  $\frac{4}{5}$ , 81 %, 0.801

B. 81 %, 0.801,  $\frac{4}{5}$

C. 0.801,  $\frac{4}{5}$ , 81 %

D.  $\frac{4}{5}$ , 0.801, 81 %

**Answer: D**



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2. If all the fractions  $\frac{3}{5}$ ,  $\frac{1}{8}$ ,  $\frac{8}{11}$ ,  $\frac{4}{9}$ ,  $\frac{2}{7}$ ,  $\frac{5}{7}$  and  $\frac{5}{12}$  are arranged in descending order of their values, which one will be the third?

A.  $\frac{1}{8}$

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

C.  $\frac{5}{12}$

D.  $\frac{8}{11}$

**Answer: B**



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3. Evaluate the expression

$$6\frac{1}{4} \times 0.25 + 0.75 - 0.3125$$

A. 5.9375

B. 4.2968

C. 2.1250

D. 2

**Answer: D**



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4. Find the values of  $\frac{0.34 - 0.034}{0.0034 \div 34}$

A. 0.306

B. 306

C. 3060

D. 0.0306

**Answer: C**



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5.  $\frac{42.31 - 26.43}{42.31 + 26.43} \div \frac{423.1 - 264.3}{4.231 + 2.643}$  is equal to

A.  $10^{-2}$

B.  $10^{-1}$

C. 10

D.  $10^2$

**Answer: A**



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6.  $2.\overline{8768}$  expressed as a rational number is

A.  $2\frac{878}{999}$

B.  $2\frac{9}{10}$

C.  $2\frac{292}{333}$

D.  $2\frac{4394}{4995}$

**Answer: C**



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7. When  $0.252525\dots\dots$  is converted into a fraction, then find the result.

A.  $\frac{63}{487}$

B.  $\frac{250}{990}$

C.  $\frac{125}{999}$

D.  $\frac{125}{990}$

**Answer: C**



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8.  $0.\overline{2956}$  when expressed as a vulgar fraction is

A.  $\frac{2956}{1000}$

B.  $\frac{2956}{10000}$

C.  $\frac{2927}{9900}$

D.  $\frac{2900}{9999}$

**Answer: C**



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9. The value of  $0.\bar{2} + 0.\bar{3} + 0.\bar{4} + 0.\bar{9} + 0.\overline{39}$  is

A.  $0.\bar{57}$

B.  $1\frac{20}{33}$

C.  $2\frac{1}{3}$

D.  $2\frac{13}{33}$

**Answer: D**



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10.  $(0.34\overline{67} + 0.13\overline{33})$  का मान है।

A.  $0.\overline{48}$

B. 0.4803

C.  $0.48\overline{01}$

D.  $0.4\overline{8}$

**Answer: C**



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11.  $[(5.\overline{88} - 4.\overline{58}) - (0.\overline{64} + 0.\overline{36})]$  is equal to

A.  $1.\overline{01}$

B.  $1.\overline{30}$

C.  $1.\overline{19}$

D.  $0.\overline{29}$

**Answer: D**



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12. The simplification of  $3.\overline{36} - 2.\overline{05} + 1.\overline{33}$  equals:

A. 2.6

B. 2.64

C.  $2.\overline{61}$

D.  $2.\overline{64}$

**Answer: D**



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13. सरल करें :  $(0.\bar{1})^2 \{1 - 9(0.1\bar{6})^2\}$

A.  $-\frac{1}{162}$

B.  $\frac{1}{108}$

C.  $\frac{7696}{10^6}$

D.  $\frac{1}{106}$

**Answer: B**



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14. If  $\frac{547.527}{0.0082} = x$ , then the value of  $\frac{547527}{82}$  is:

A.  $\frac{x}{10}$

B.  $10x$

C.  $100x$

D.  $\frac{x}{100}$

**Answer: A**



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15.  $\frac{24.23 \times 1.423 \times 34.21}{521.3 \times 413.32 \times 2.53}$  is same as

A.  $\frac{2423 \times 1423 \times 3421}{5213 \times 41332 \times 253}$

B.  $\frac{242.3 \times 142.3 \times 3421}{5213 \times 4133.2 \times 2.53}$

C.  $\frac{2.423 \times 14.23 \times 342.1}{521.3 \times 4133.2 \times 2.53}$

D.  $\frac{24.23 \times 14.23 \times 3.421}{5.213 \times 41332 \times 0.253}$

**Answer: C**



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**16.** Which of the following is greater than 1000.01  
?

A.  $0.00010001 \times 10^7$

B.  $0.00001 \times 10^8$

C.  $1.1 \times 10^2$

D.  $1.00001 \times 10^3$

**Answer: A**



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17. Find the value of  $2 \times \left\{ \frac{3.6 \times 0.48 \times 2.50}{0.12 \times 0.09 \times 0.5} \right\}$

A. 80

B. 800

C. 8000

D. 80, 000

**Answer: B**



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**18.**

**Simplify:**

$$[0.9 - \{2.3 - 3.2 - (7.1 - 5.4 - 3.5)\}]$$

A. 0.18

B. 1.8

C. 0

D. 2.6

**Answer: C**



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**19.** In the expression

$$24 - [2.4 - \{0.24 \times 2 - (0.024 - x)\}] = 22.0589$$

, the value of  $x$  is

A. 0.0024

B. 0.024

C. 0.24

D. 2.4

**Answer: A**



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20. The value of  $1 + \frac{1}{4 \times 3} + \frac{1}{4 \times 3^2} + \frac{1}{4 \times 3^3}$  is  $\frac{121}{108}$  (b)  $\frac{3}{2}$  (c)  $\frac{31}{2}$  (d) None of these

A. 1.120

B. 1.250

C. 1.140

D. 1.160

**Answer: A**





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## Self Assessment Sheet

1. 5.63 Divided by 0.01 is equal to

A. 563

B. 56.3

C. 0.563

D. 5630

**Answer: A**



2. Consider the following statements :

$\frac{1}{22}$  cannot be written as a terminating decimal

$\frac{2}{15}$  can be written as a terminating decimal .

$\frac{1}{16}$  can be written as a terminating decimal .

Which of the statement given below above is/are correct ?

A. 1 only

B. 2 only

C. 1 and 3

D. 2 and 3

**Answer: C**



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3. If  $2.5252525 \dots = \frac{p}{q}$  ( in the lowest form ) ,  
then what is the value of  $\frac{q}{p}$  ?

A. 0.4

B. 0.42525

C. 0.0396

D. 0.396

**Answer: D**



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4. Which of the following is not a correct statement ?

A.  $0.\overline{01} = \frac{1}{90}$

B.  $0.\overline{1} = \frac{1}{9}$

C.  $0.\overline{2} = \frac{2}{9}$

D.  $0.\overline{3} = \frac{1}{3}$

**Answer: A**



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5. If  $\frac{1}{3.718} = .2689$  , then find the value of  $\frac{1}{.0003718}$  .

A. 2689

B. 2.689

C. 26890

D. 0.2689

**Answer: A**



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6. If  $47.2506 = 4A + \frac{7}{B} + 2C + \frac{5}{D} + 6E$  then the value of  $5A + 3B + 6C + D + 3E$  is

A. 53.6003

B. 53.603

C. 153.6003

D. 213.0003

**Answer: C**



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7. The value of  $(0.44\overline{67} + 0.14\overline{44})$  is :

A. 0.59

B.  $0.59\overline{12}$

C.  $0.\overline{59}$

D.  $0.5\overline{9}$

**Answer: B**



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8. The value of  $\frac{20 \times (0.3)^2}{0.018} \div 0.5$  of 0.2 is

A. 10

B. 100

C. 20

D. 1000

**Answer: D**



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**9.  $178 \times 34 = 6052$ , then  $6.052 \div 17.8 = ?$**

A. 34



B. 0.34

C. 0.034

D. None of these

**Answer: B**



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**10.**  $58.326 \times 463.9 \times 0.0081$  is the same as

A.  $5.8326 \times 4.639 \times 8.1$

B.  $5.8326 \times 4.639 \times 0.81$

C.  $58326 \times 4639 \times 0.0000081$

D. None of these

**Answer: A**



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