

Fractions-Exercise Questions updated on Dec 2024

1.  $20.05 + 35.603 - \dots = 43.087$

- a. 10.263
- b. 12.566
- c. 15.426
- d. 13.286

2. Which of the following fraction is smallest?

- a.  $\frac{23}{28}$
- b.  $\frac{14}{15}$
- c.  $\frac{15}{19}$
- d.  $\frac{21}{24}$

3. 0.585858 is equivalent to the fraction....

- a.  $\frac{58}{100}$
- b.  $\frac{58}{99}$
- c.  $\frac{85}{100}$
- d.  $\frac{85}{99}$

4. The value of is

- a.  $\frac{47}{198}$
- b.  $3\frac{4}{198}$
- c.  $\frac{48}{98}$
- d.  $\frac{58}{36}$

5.  $0.9 \times 0.007 =$  \_\_\_\_\_

- a. 0.063
- b. 0.0063
- c. 0.63
- d. 0.00063

6.  $0.0015 \div ? = 0.003$

- a. 0.05
- b. 0.005
- c. 0.5
- d. 5

7.  $0.363 \times 0.522 + 0.363 \times 0.478 = ?$

- a. 0.522
- b. 0.845
- c. 0.363
- d. 0.985

8. If  $7125 \div 1.25 = 5700$  the value of  $712.5 \div 12.5$  is:

- a. 5.7
- b. 57
- c. 570
- d. .57

9. The value of  $34.31 \times 0.473 \times 1.567$  is close to

$$0.0673 \times 23.25 \times 7.57$$

- a. 2.0
- b. 1.15
- c. 2.05
- d. 2.15

10. Evaluate  $(5.68)^2 - (4.32)^2$

$$5.68 - 4.32$$

- a. 8
- b. 9
- c. 10
- d. 12

11. Evaluate  $\frac{4.3 \cdot 4.3 \cdot 4.3 + 1}{4.3 \cdot 4.3 - 4.3 + 1}$

$$4.3 \cdot 4.3 - 4.3 + 1$$

- a. 14.3
- b. 52.3
- c. 5.3
- d. 42.3

12. If  $5 = 2.24$ , then the value of  $\frac{55}{5}$  is  $45 - .96$

- a. 14
- b. 15.2
- c. 13.4
- d. 14.5

13. If  $5.51 \cdot 10^k = 0.0551$ , then the value of  $k$  is:

- a. -4
- b. -3
- c. -2
- d. -1

14.  $\frac{25.25}{2000}$  is equal to: 2000

- a. 1.012526
- b. 0.012625
- c. 0.12526
- d. 0.12625

15. The value of  $\frac{(2.502+0.064)^2 - (2.502-0.064)^2}{2.502*0.064}$

$$2.502*0.064$$

- a. .25
- b. .235
- c. 4
- d. 3

16. The value of  $\frac{4.5*1.8+4.5*8.2}{1.5*4.5+1.5*5.5}$

$$1.5*4.5+1.5*5.5$$

- a. 10
- b. 8
- c. 5
- d. 3

17. The value of  $\frac{(.02)^2 + (0.52)^2 + (0.035)^2}{(0.002)^2 + (0.052)^2 + (0.0035)^2}$

$$(0.002)^2 + (0.052)^2 + (0.0035)^2$$

- a. 100
- b. 1000
- c. .001
- d. .0001

18. Out of 200 donors,  $\frac{1}{4}$  are men and remaining are women. Each male donor donates Rs.3000 per year and each female donor donates  $\frac{1}{2}$  of that amount. What is the total yearly collection through donations?

- a. Rs.1, 50,000
- b. Rs.3, 75,000
- c. Rs.1, 40,300
- d. Rs.2, 25,000

19. One-fifth of Ramu's expenditure is equal to one-half of his savings. If his monthly income is Rs.6300 how much amount does he save?

- a. Rs.1550
- b. Rs.1800

c. Rs.2000

d. Rs.2350

20. The width of a rectangular hall is  $\frac{1}{2}$  of its length. If the area of the hall is 450 sq.m, what is the difference between its length and breadth?

a. 8m

b. 10m

c. 12m

d. 15m

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## Answer & Explanations

1. Exp:  $20.05 + 35.603 - 43.087 = 55.653 - 43.087 = 12.566$

2. Exp:  $\frac{23}{28} = 0.821$

28

$\frac{14}{15} = 0.933$

15

$\frac{15}{19} = 0.7894$

19

$\frac{21}{24} = 0.875$

24

So,  $\frac{15}{19} = 0.7894$  is smallest.

19

3. Exp:  $0.585858 = \frac{58}{99}$

4. Exp:  $3 + \frac{1}{990} = 3 + \frac{236-1}{990} = 3 \frac{47}{198}$

5. Exp:  $9 \times 7 = 63$

Sum of decimal places = 4

So,  $0.9 \times 0.007 = 0.0063$

6. Exp: Let  $\frac{0.0015}{X} = 0.003$

X

$X = \frac{0.0015}{0.003} = 0.5$

0.003

7. Exp: Given Expression =  $0.363 \times (0.522 + 0.478) = 0.363 \times 1 = 0.363$

8. Exp: Given  $\frac{7125}{1.25} = 5700$

1.25

$\frac{712.5}{1.25} = \frac{7125}{12.5} = \frac{7125 \times 1}{12.5} = 5700 = 57$

$$12.5 \quad 1.25 \quad 1.25 \cdot 100 \quad 100$$

$$9. \text{ Exp: } \underline{34.31 \cdot 0.473 \cdot 1.567} = \underline{25.4303} = 2.15$$

$$0.0673 \cdot 23.25 \cdot 7.57 \quad 11.845$$

$$10. \text{ Exp. Given Expression} = \underline{a^2 - b^2} = \underline{(a+b)(a-b)} = (a+b)$$

$$a-b \quad a-b$$

$$\underline{(5.68)^2 - (4.32)^2} = (5.68 + 4.32) = 10$$

$$5.68 - 4.32$$

$$11. \text{ Exp: Given Expression} = \underline{a^3 + b^3} = (a+b)$$

$$a^2 - ab + b^2$$

$$= (4.3 + 1) = 5.3$$

$$12. \text{ Exp: } \underline{5} \quad \underline{5} = \underline{5 \cdot 2.24} = \underline{11.2} = \underline{11.2} = 14$$

$$4 \quad 5 - .96 \quad 4 \cdot 2.24 - .96 \quad 8.96 - .96 \quad 8$$

$$13. \text{ Exp: } 10^k = \underline{0.0551} = \underline{5.51} = \underline{5.51 \cdot 10^2} = \underline{1} = 10^{-2}$$

$$5.51 \quad 551 \quad 551 \cdot 10^2 \quad 10^2$$

$$14. \text{ Exp: } \underline{25.25} = \underline{2525} = 0.012625$$

$$2000 \quad 200000$$

$$15. \text{ Exp: } \underline{(2.502 + 0.064)^2} - \underline{(2.502 - 0.064)^2} = \underline{(a+b)^2} - \underline{(a-b)^2} = \underline{4ab} = 4$$

$$2.502 \cdot 0.064 \quad ab \quad ab$$

$$16. \text{ Exp: } \underline{4.5 \cdot 1.8 + 4.5 \cdot 8.2} = \underline{4.5(1.8 + 8.2)} = \underline{4.5 \cdot 10} = \underline{45} = 3$$

$$1.5 \cdot 4.5 + 1.5 \cdot 5.5 \quad 1.5(4.5 + 5.5) \quad 1.5 \cdot 10 \quad 15$$

$$17. \text{ Exp: } \underline{(.02)^2} + \underline{(0.52)^2} + \underline{(0.035)^2} = \underline{a^2 + b^2 + c^2}$$

$$(0.002)^2 + (0.052)^2 + (0.0035)^2 \quad \left(\frac{a}{10}\right)^2 + \left(\frac{b}{10}\right)^2 + \left(\frac{c}{10}\right)^2,$$

where  $a = .02$ ,  $b = .52$ ,  $c = .035$

$$= \frac{100(a^2+b^2+c^2)}{a^2+b^2+c^2} = 100$$

18. Exp: Number of men donors =  $200 \times \frac{1}{4} = 50$

Number of women donors =  $200 - 50 = 150$

1 man donor donates = Rs.3000

Therefore, 50 men donor donates =  $3000 \times 50 = \text{Rs.}1,50,000$

1 woman donor donates =  $3000 \times \frac{1}{2} = \text{Rs.}1500$

Therefore, 150 women donor donates =  $1500 \times 150 = \text{Rs.}2,25,000$

Hence total amount collected =  $1,50,000 + 2,25,000$

$$= \text{Rs.}3,75,000$$

19. Let the saving be Rs. x

Therefore, Expenditure = Rs. (6300-x)

then,  $(6300-x) \times \frac{1}{5} = x \times \frac{1}{2}$

$$\frac{6300-x}{5} = \frac{x}{2}$$

$$\Rightarrow 1260 - \frac{x}{5} = \frac{x}{2}$$

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

$$\Rightarrow 1260 = \frac{x}{2} + \frac{x}{5}$$

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

$$\Rightarrow 7x = 1260$$

$$\frac{10}{10}$$

$$x = 1800$$

20. Exp: Let the length of the hall be x m

Breadth of the hall =  $\frac{1}{2}x$  m

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

Area of the hall = Length \* Breadth

$$450 = x \times \frac{1}{2}x$$

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

$$x^2 = 900$$

$$x = 30$$



Difference between the length and breadth of the hall =  $x - \frac{1x}{2} = x/2$   
2

$$\frac{30}{2} = 15\text{m}$$

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