SMART
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Fractions & Decimals

1. Which of the following has fractions in ascending order?

a. $\frac{2}{5}, \frac{3}{5}, \frac{1}{3}, \frac{4}{7}, \frac{5}{6}$

b. $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{5}{6}, \frac{4}{7}$

c. $\frac{1}{3}, \frac{2}{5}, \frac{5}{6}, \frac{4}{7}, \frac{3}{5}$

d. $\frac{1}{3}, \frac{2}{5}, \frac{4}{7}, \frac{3}{5}, \frac{5}{6}$

2. Which of the following has fractions in descending

a. $\frac{5}{6}$, $\frac{4}{7}$, $\frac{2}{5}$, $\frac{3}{5}$, $\frac{1}{3}$

b. $\frac{5}{6}$, $\frac{3}{5}$, $\frac{4}{7}$, $\frac{2}{5}$, $\frac{1}{3}$

c. $\frac{4}{7}$, $\frac{1}{3}$, $\frac{2}{5}$, $\frac{5}{6}$, $\frac{3}{5}$

d. $\frac{1}{3}$, $\frac{2}{5}$, $\frac{4}{7}$, $\frac{3}{5}$, $\frac{5}{6}$

3. Convert 0.737373... into vulgar fraction?

(a) 73/99 (b) 73/100

(c) 73/90 (d) 73/900

4. Convert $0.6\overline{7}$ into vulgar fraction.

(a) 67/99 (b) 67/90

(c) 61/90 (d) 61/100

5. Find the correct expression for $5.\overline{46}$ in the fractional form.

(a) 541/100 (b) 541/99

(c) 546/99 (d) 541/900

6. $0.23\overline{43} + 0.18\overline{88} = ?$

(a) $0.42\overline{32}$ (b) $0.41\overline{32}$

(c) $0.42\overline{33}$ (d) 0.4231

7. $3.\overline{23} - 2.\overline{03} + 1.\overline{55}$

(a) $2.\overline{75}$ (b) 2.75

(c) 2.70 (d) $2.\overline{71}$

8. Find the product of $0.\overline{09} \times 7.\bar{3}$

(a) $0.\overline{67}$

(b) 0.657

(c) $0.\bar{6}$

(d) None of these

SQUARES OF NUMBERS NEARER TO 10^x, $x \in N$

10. Find the value of $\frac{(0.555\times0.555-0.555\times0.020+0.020\times0.020)}{(0.555\times0.555\times0.555)+(0.020\times0.020\times0.020)}$

(a) 1.55 (b) 1.74 (c) 2.36 (d) 5.02

11. Evaluate: $\frac{(2.39)^2-(1.61)^2}{2.39-1.61}$

(a) 2 (b) 4 (c) 6 (d) 8

12. What decimal of an hour is a second?

(a) 0.0025 (b) 0.0256

(c) 0.00027 (d) 0.000126

13. The value of is: $\frac{(0.96)^3-(0.1)^3}{(0.96)^2+0.096+(0.1)^2}$

(a) 0.86 (b) 0.95 (c) 0.97 (d) 1.06

14. The value of is: $\frac{0.1\times0.1\times0.1+0.02\times0.02\times0.02}{0.2\times0.2\times0.2+0.04\times0.04\times0.04}$

(a) 0.0125 (b) 0.125

(c) 0.25 (d) 0.5

15. If $2994 \div 14.5 = 172$, then $29.94 \div 1.45 = ?$

(a) 0.172 (b) 1.72 (c) 17.2 (d) 172

16. $\frac{0.009}{?} = 0.01$

(a) 0.0009 (b) 0.09 (c) 0.9 (d) 9

17. $\frac{(0.1667)(0.8333)(0.3333)}{(0.2222)(0.6667)(0.1250)}$ is approximately equal to:

(a) 2 (b) 2.40 (c) 2.43 (d) 2.50

18. 0.04×0.0162 is equal to:

(a) 6.48×10^{-3}

(b) 6.48×10^{-4}

(c) 6.48×10^{-5}

(d) 6.48×10^{-6}

19. $\frac{4.2\times4.2-1.9\times1.9}{2.3\times6.1}$ is equal to:

(a) 0.5 (b) 1.0 (c) 20 (d) 22

20. If $\frac{144}{0.144} = \frac{14.4}{x}$, then the value of x is:

(a) 0.0144 (b) 1.44 (c) 14.4 (d) 144