

1. $\frac{27}{63} - \frac{26}{91} = ?$
 A) $\frac{5}{6}$ B) $\frac{4}{5}$ C) $\frac{3}{7}$ D) $\frac{2}{5}$ E) $\frac{1}{7}$
2. Which one of the followings is an improper fraction?
 A) $\frac{7}{12}$ B) 16 C) $4\frac{7}{10}$ D) $\frac{99}{100}$ E) $\frac{8}{15}$
3. $1\frac{1}{14} + 2\frac{4}{7} + \frac{3}{28} = ?$
 A) $3\frac{3}{7}$ B) $4\frac{1}{8}$ C) $3\frac{20}{28}$ D) $3\frac{5}{7}$ E) $3\frac{3}{4}$
4. $(1 - \frac{4}{5}) \cdot (1 - \frac{5}{6}) \cdot (1 - \frac{6}{7}) \cdot 210 = ?$
 A) 1 B) 21 C) 30 D) $30\frac{1}{2}$ E) $\frac{1}{42}$
5. $(1 - \frac{3}{7}) + (2 + 2\frac{1}{14}) = ?$
 A) $3\frac{7}{14}$ B) $4\frac{7}{14}$ C) $4\frac{9}{14}$ D) $5\frac{3}{14}$ E) $4\frac{5}{14}$
6. Which of the following is not between $\frac{2}{9}$ and $\frac{2}{5}$?
 A) $\frac{11}{45}$ B) $\frac{4}{15}$ C) $\frac{19}{45}$ D) $\frac{1}{3}$ E) $\frac{3}{10}$
7. If $\frac{21}{45} > \frac{a}{15} > \frac{1}{3}$, which one of the followings can be the value of a ?
 A) 5 B) 6 C) 7 D) 8 E) 9
8. Which one of the following fractions is the smallest?
 $\frac{17}{20}, \frac{7}{11}, \frac{5}{7}, \frac{7}{8}, \frac{13}{15}$?
 A) $\frac{17}{20}$ B) $\frac{7}{11}$ C) $\frac{5}{7}$ D) $\frac{7}{8}$ E) $\frac{13}{15}$
9. Which one of the following numbers is nearest to 1?
 A) 12/11 B) 13/14 C) 15/16 D) 17/16 E) 18/19

10. Which one is the correct order of the numbers

$$\frac{1}{2}, \frac{2}{5}, \frac{5}{8}, \frac{8}{17}?$$

A) $\frac{1}{2} < \frac{2}{5} < \frac{5}{8} < \frac{8}{17}$ B) $\frac{2}{5} < \frac{8}{17} < \frac{1}{2} < \frac{5}{8}$

C) $\frac{2}{5} < \frac{1}{2} < \frac{8}{17} < \frac{5}{8}$ D) $\frac{8}{17} < \frac{5}{8} < \frac{2}{5} < \frac{1}{2}$

E) $\frac{2}{5} < \frac{1}{2} < \frac{5}{8} < \frac{8}{17}$

11. $2\frac{1}{7}, \frac{8}{10}, \frac{15}{7}, \frac{24}{12}, \frac{6}{4}$.

Which one of the followings is true?

A) $\frac{8}{10} < \frac{6}{4} < \frac{24}{12} < 2\frac{1}{7} = \frac{15}{7}$

B) $\frac{8}{10} > \frac{6}{4} > \frac{24}{12} > 2\frac{1}{7} = \frac{15}{7}$

C) $2\frac{1}{7} > \frac{15}{7} > \frac{24}{12} > \frac{6}{4} = \frac{8}{10}$

D) $\frac{24}{12} < 2\frac{1}{7} = \frac{15}{7} < \frac{6}{4} < \frac{8}{10}$

E) $2\frac{1}{7} = \frac{15}{7} > \frac{24}{12} > \frac{6}{4} = \frac{8}{10}$

12. If $6 \geq a \geq 2$ and $12 \geq b \geq 5$, find the maximum value of $\frac{a-1}{b+2}$?

A) $\frac{1}{14}$ B) $\frac{8}{3}$ C) $\frac{5}{7}$ D) $\frac{4}{3}$ E) $\frac{6}{5}$

13. If $x = -8/7$; $y = -4/3$; $z = -11/9$, which one of the following orders of the numbers x, y, z is true?

A) $z < y < x$ B) $z < x < y$ C) $y < x < z$
 D) $x < y < z$ E) $y < z < x$

14. $\frac{11}{9} - 2 = ?$

A) $4\frac{1}{9}$ B) $3\frac{2}{9}$ C) $4\frac{5}{9}$ D) $3\frac{7}{9}$ E) $3\frac{4}{9}$

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$$15. \frac{5}{2} - \frac{2}{3} : (1 - \frac{1}{3}) = ?$$

- A) $\frac{11}{4}$ B) $\frac{11}{6}$ C) $\frac{5}{2}$ D) $\frac{3}{2}$ E) $\frac{1}{2}$

$$16. \frac{1}{\frac{4}{5}} + \frac{1}{\frac{4}{5}} = ?$$

- A) $1\frac{7}{10}$ B) $1\frac{3}{10}$ C) $2\frac{3}{10}$ D) $2\frac{7}{10}$ E) $\frac{23}{10}$

$$17. \frac{1}{(1 - \frac{1}{7}) : \frac{12}{14} + 1} = ?$$

- A) $\frac{1}{2}$ B) $\frac{2}{3}$ C) 1 D) $2\frac{1}{6}$ E) 2

$$18. \frac{(1 - \frac{3}{4}) : \frac{1}{4}}{1 + \frac{2}{5}} = ?$$

- A) $\frac{1}{5}$ B) $\frac{3}{5}$ C) $\frac{5}{7}$ D) 1 E) 4

$$19. \frac{1}{3} - \frac{\frac{1}{3} - 1}{1 - \frac{2}{3}} = ?$$

- A) $\frac{4}{3}$ B) $\frac{7}{3}$ C) $\frac{5}{3}$ D) $\frac{2}{3}$ E) $-\frac{5}{3}$

$$20. \frac{1 + \frac{2}{5}}{(1 + \frac{3}{4}) : \frac{3}{4}} = ?$$

- A) $\frac{1}{4}$ B) $\frac{3}{5}$ C) $\frac{2}{5}$ D) $\frac{1}{3}$ E) $\frac{3}{7}$

$$21. \frac{2 - \frac{1}{5} : \frac{3}{6}}{1 - (\frac{2}{3} - \frac{3}{5})} = ?$$

- A) $\frac{3}{2}$ B) $\frac{12}{7}$ C) $\frac{15}{2}$ D) 8 E) $\frac{17}{2}$

$$22. \frac{\frac{1}{-2} - 2 - 5(2 - \frac{1}{3})}{2 - \frac{1}{3} + 3(\frac{1}{3} - 2)} = ?$$

- A) 1 B) 2 C) 3 D) 4 E) 5

$$23. \text{What is the value of } 1 + \frac{2}{1 + \frac{1}{2 + \frac{1}{3}}}$$

- A) $12/5$ B) $13/5$ C) $14/5$ D) $17/5$ E) $21/5$

$$24. \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}} = ?$$

- A) $\frac{31}{20}$ B) $1\frac{9}{22}$ C) $\frac{3}{4}$ D) 2 E) $\frac{8}{3}$

$$25. \frac{\frac{1}{4} + \frac{2}{3} + \frac{3}{4}}{\frac{2}{3} + \frac{3}{4} + 1} \div (1 - \frac{14}{37}) = ?$$

- A) 1 B) $\frac{23}{37}$ C) $\frac{46}{11}$ D) 0 E) $\frac{23}{11}$