

Review

Name _____ Date _____

Evaluate {1-17}

1) $6 - 4 + 3 = \underline{5}$

2) $8 - (4 \cdot 2) = \underline{0}$

3) $8 - 3 - 4 = \underline{1}$

4) $2 - \frac{1}{2} = \frac{3}{2}$ or $1\frac{1}{2}$

5) $2 \cdot [8 - 3(4 + 2)] - 3 = \underline{-23}$

6) $1 - (4 \cdot 3 - 2 + 2) = \underline{-11}$

7) $2 - \frac{(5 \cdot 4)}{20} - \frac{[6 \cdot 3 - 4]}{14} = \underline{-32}$

8) $(5 + 4)\frac{1}{3} = \underline{3}$

9) $\frac{2 - 4}{5 - 3} = \underline{-1}$

10) $\frac{15}{3} \cdot \frac{1}{2} = \frac{1}{6}$

11) $\frac{21}{25} \cdot \frac{100}{3} = \boxed{28}$

12) $\frac{2 \cdot 4}{2 \cdot 3} + \frac{1 \cdot 3}{2 \cdot 3} = \frac{11}{6}$

13) $\frac{8}{9} + \frac{15}{2} = \frac{16}{18} + \frac{135}{18} = \boxed{\frac{151}{18}}$

14) $\frac{3 \cdot 2}{3 \cdot 15} + \frac{8 \cdot 5}{9 \cdot 5} = \frac{46}{45}$

15) $\frac{3}{14} - \frac{2}{21} = \frac{9}{42} - \frac{4}{42} = \boxed{\frac{5}{42}}$

16) $\frac{2 \cdot 6}{2 \cdot 35} - \frac{3 \cdot 5}{14 \cdot 5} = \frac{-3}{70}$

17) $\frac{\frac{5}{21}}{\frac{5}{35}} = \frac{5}{21} \div \frac{2}{35}$

$= \frac{5 \cdot 35}{21 \cdot 2} = \boxed{\frac{25}{6}}$

Simplify {18-23}

18) $\frac{1}{2}(4x - 2) = \underline{2x - 1}$

19) $\frac{x}{2}(14x + 12) = \underline{7x^2 + 6x}$

20) $\frac{1}{x}(3x + 2) = \frac{3x}{x} + \frac{2}{x} = \boxed{3 + \frac{2}{x}}$

21) $(2x - 8)\frac{x}{2} = \frac{2x^2}{2} - \frac{8x}{2} = \boxed{x^2 - 4x}$

22) $(14x + 28)\frac{1}{7} = \underline{2x + 4}$