

Complete each calculation and SHOW ALL WORK.

1.  $\frac{3}{6} + \frac{7}{14} =$   
 $\frac{1}{2} + \frac{1}{2} = 1$

2.  $-9 - (-3) + 6$   
 $-9 + 3 + 6 = 0$

3.  $-(2)^3 \cdot (-3)^2$   
 $-8 \cdot 9 = -72$

4.  $-6 \div 3 + 8(2)$   
 $-2 + 16 = 14$

5.  $3.3 \overline{)168.97}$   
 $33 \overline{)1689.7}$   
 $51.2$

6.  $\frac{1}{8} \cdot \frac{3}{7}$   
 $\frac{3}{56}$

7.  $(3+6) + 2(4-9)$   
 $9 + 2(-5)$   
 $9 + -10 = -1$

8.  $8.3 - 6.12 + 17.25$   
 $\begin{array}{r} 8.30 \\ - 6.12 \\ \hline 2.18 \end{array}$ 
 $\begin{array}{r} 17.25 \\ + 2.18 \\ \hline 19.43 \end{array}$   
 $19.43$

9.  $(.078)(13.2)$   
 $1.0296$

10.  $(-4)(-5)(2)$   
 $20 \cdot 2 = 40$

11.  $2 - 6 \div 3 + 2^2 \cdot 3$   
 $2 - 2 + 4 \cdot 3$   
 $2 - 2 + 12 = 12$

12.  $\left(\frac{2}{3} + \frac{2}{6}\right)^2$   
 $\frac{2}{3} + \frac{1}{3} = \left(\frac{3}{3}\right) (1)^2 = 1$

13.  $\left(\frac{3}{8} - \frac{1}{4}\right) \left(\frac{2}{5} + \frac{6}{7}\right)$   
 $\frac{3}{8} - \frac{2}{8} = \frac{1}{8}$ 
 $\frac{17}{35} + \frac{30}{35} = \frac{47}{35}$   
 $\left(\frac{1}{8}\right) \frac{47}{35} = \frac{47}{280} = \frac{22}{140} = \frac{11}{70}$

14.  $(6-2)^2(-4-[-4])$   
 $4^2(-4+4) = 16 \cdot 0 = 0$

15.  $\frac{5}{7} \div \left(4 + \frac{1}{3}\right)$   
 $\frac{5}{7} \div \frac{13}{3} = \frac{5}{7} \cdot \frac{3}{13} = \frac{15}{91}$

16.  $79 \times 65$   
 $\begin{array}{r} 79 \\ \times 65 \\ \hline 395 \\ 4740 \\ \hline 5135 \end{array}$

17.  $3(2-6) + 8 \div 4$   
 $3(-4) + 2 = -12 + 2 = -10$

18.  $(-4+10) \div 3$   
 $6 \div 3 = 2$

19.  $5\frac{1}{2} - \frac{5}{6}$   
 $\frac{11}{2} - \frac{5}{6} = \frac{33}{6} - \frac{5}{6} = \frac{28}{6} = \frac{14}{3}$

20.  $3 + 4\left(\frac{1}{2}\right)^2$   
 $3 + 4\left(\frac{1}{4}\right) = 3 + 1 = 4$

21.  $\frac{50}{\left(\frac{3}{2}\right)} = \frac{100}{3}$   
 $\frac{50 \cdot 2}{1 \cdot 3} = \frac{100}{3}$