

6<sup>th</sup> Grade Math 8.8 Review

1.  $6 \times \frac{1}{3} \div \left(\frac{1}{4}\right)^2$   $\frac{1}{4} \cdot \frac{1}{4}$

$6 \times \frac{1}{3} \div \frac{1}{16}$

$\frac{2}{1} \div \frac{1}{16} = \frac{2}{1} \cdot \frac{16}{1} = \frac{32}{1} = 32$

2.  $\frac{2}{5} + \frac{3}{5} - 0.5$

$\frac{5}{5}$   
 $1 - 0.5 = 0.5$

3.  $2\frac{1}{2} \times \frac{1}{4} - \left(\frac{1}{4}\right)^2$   $\frac{1}{4} \cdot \frac{1}{4}$

$2\frac{1}{2} \times \frac{1}{4} - \frac{1}{16}$

$\frac{5}{2} \times \frac{1}{4}$

$\frac{5 \cdot 2}{8 \cdot 2} - \frac{1}{16} = \frac{10}{16} - \frac{1}{16} = \frac{9}{16}$

4.  $1\frac{3}{4} - (0.25 + 1)$   $1.00$

$\frac{3}{4} - 1.25$   $\frac{1.00}{+0.25}$   $1.25$

Fraction:

$\frac{3}{4} - \frac{25}{100} = \frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$

Decimal:

$1.75 - 1.25 = 0.50$  or  $0.5$

5.  $\left(\frac{1}{5}\right)^2 + \frac{1}{5} \div \frac{1}{4}$   
 $\frac{1}{5} \cdot \frac{1}{5}$

$\frac{1}{25} + \frac{1}{5} \div \frac{1}{4} = \frac{1}{5} \cdot \frac{4}{1}$

$\frac{1}{25} + \frac{4 \cdot 5}{5 \cdot 5} = \frac{1}{25} + \frac{20}{25} = \frac{21}{25}$

6.  $\frac{3}{7} \left(14 - \frac{7}{9}\right)$

$\frac{3}{7} \cdot \frac{14}{1} - \frac{3}{7} \cdot \frac{7}{9}$

$\frac{6 \cdot 3}{1 \cdot 3} - \frac{1}{3} = \frac{18}{3} - \frac{1}{3} = \frac{17}{3}$  or  $5\frac{2}{3}$

7.  $\frac{5}{6} \left(12 - \frac{1}{3}\right)$

$\frac{5}{6} \cdot \frac{12}{1} - \frac{5}{6} \cdot \frac{1}{3}$

$\frac{10 \cdot 18}{1 \cdot 18} - \frac{5}{18} = \frac{180}{18} - \frac{5}{18} = \frac{175}{18}$  or  $9\frac{13}{18}$

8.  $\frac{7}{9} \left(16 - \frac{1}{4}\right)$

$\frac{7}{9} \cdot \frac{16}{1} - \frac{7}{9} \cdot \frac{1}{4}$

$\frac{112 \cdot 4}{9 \cdot 4} - \frac{7}{36} = \frac{448}{36} - \frac{7}{36} = \frac{441}{36}$