

# 6<sup>th</sup> Grade Math Prep

Name \_\_\_\_\_

## Order of operations

Use order of operations (PEMDAS) to solve the following problems.

1.  $(5 \times 4) + (13 \times 3)$

2.  $(10 - 3) \times (5 + 4)$

3.  $\frac{5 + (4 \times 10) - 3}{6}$

4.  $(8 - 3) + (4 \times 9 \div 3)$

5.  $14 + (12 \div 6) - 3$

6.  $54 - 21 + (9 \times 2)$

7.  $(45 \div 9) \times 5$

8.  $(63 \div 7) - 2 + 18$

9.  $12 + (11 \div 11) \times 4$

10.  $(8 + 32) \div (4 \times 2) + 28$

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## Decimals

Add, subtract, multiply or divide the following decimal problems.

1.  $62.9 + 1.42 + 42$

2.  $187.96 + 29.46 + 2.3$

3.  $1.503 + 25.25 + 49.7$

4.  $159.25 - 83.7$

5.  $14.32 - 6.857$

6.  $47.68 - 4.07$

7.  $9.423 \times 78$

8.  $23.4 \times 8.2$

9.  $441.7 \times .15$

10.  $276.48 \div 6$

11.  $100.8 \div 14$

12.  $181.5 \div 33$

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## Fractions

Reduce each fraction to lowest terms.

1.  $\frac{8}{48}$

2.  $\frac{5}{60}$

3.  $\frac{27}{54}$

4.  $\frac{36}{44}$

Complete each equivalent fraction.

5.  $\frac{4}{9} = \frac{?}{54}$

6.  $\frac{3}{7} = \frac{15}{?}$

7.  $\frac{27}{45} = \frac{?}{5}$

8.  $\frac{60}{144} = \frac{5}{?}$

Add or subtract the following by first getting common denominators. Be sure your answer is in simplest form. *Show ALL of your work!!*

EXAMPLE:  $\frac{2}{3} = \frac{8}{12}$   
 $+$   $\frac{3}{4} = \frac{9}{12}$   

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 $\frac{17}{12} = 1\frac{5}{12}$

9.  $\frac{3}{4}$   
 $+$   $\frac{1}{6}$   
\_\_\_\_\_

10.  $\frac{9}{10}$   
 $+$   $\frac{4}{5}$   
\_\_\_\_\_

11.  $\frac{2}{5}$   
 $+$   $\frac{1}{4}$   
\_\_\_\_\_

12.  $\frac{1}{12}$   
 $+$   $\frac{3}{8}$   
\_\_\_\_\_

13.  $\frac{2}{3}$   
 $-$   $\frac{2}{9}$   
\_\_\_\_\_

14.  $\frac{7}{8}$   
 $-$   $\frac{3}{4}$   
\_\_\_\_\_

15.  $\frac{1}{6}$   
 $-$   $\frac{1}{15}$   
\_\_\_\_\_

16.  $\frac{5}{7}$   
 $-$   $\frac{1}{2}$   
\_\_\_\_\_