

Name: \_\_\_\_\_

Block: \_\_\_\_\_

**WORKPLACE MATH 10 DIAGNOSTIC TEST**

This is solely to find out where you are at so I can best help you to be successful this year.  
No calculators are permitted. Please show your final answer clearly.

Section 1: Some basic math operations...

1)  $24.3 + 1.31 =$  \_\_\_\_\_

2)  $28 - 7.9 =$  \_\_\_\_\_

3)  $39 \times 27 =$  \_\_\_\_\_

4)  $\sqrt{121} =$  \_\_\_\_\_

Section 2: Operations with integers...

5)  $(-3) + (-8) =$  \_\_\_\_\_

6)  $(-17) + 10 =$  \_\_\_\_\_

7)  $(-2) \times (-3) =$  \_\_\_\_\_

8)  $(-6) - (-3) =$  \_\_\_\_\_

9)  $(-10) \div (-2) =$  \_\_\_\_\_

10)  $(-25) - 15 =$  \_\_\_\_\_

11)  $5 \times (-6) =$  \_\_\_\_\_

12)  $30 \div (-3) =$  \_\_\_\_\_

Section 3: Operations with fractions...

13)  $\frac{1}{2} + \frac{2}{3} =$  \_\_\_\_\_

14)  $\frac{1}{3} \times 15 =$  \_\_\_\_\_

$$15) 1\frac{1}{2} + 3\frac{4}{5} = \underline{\hspace{2cm}}$$

$$16) \frac{3}{5} \div \frac{1}{10} = \underline{\hspace{2cm}}$$

$$17) \frac{7}{8} - \frac{1}{3} = \underline{\hspace{2cm}}$$

$$18) 3\frac{2}{3} \times 1\frac{1}{3} = \underline{\hspace{2cm}}$$

Section 4: Percent, ratio, and rate...

$$19) \frac{3}{20} = \underline{\hspace{2cm}} \%$$

$$20) 2 : 7 = \underline{\hspace{2cm}} : 28$$

$$21) \$8.00 \text{ for } 4 \text{ L} = \$\underline{\hspace{2cm}} \text{ for } 1 \text{ L}$$

$$22) 25\% \text{ of } 20 = \underline{\hspace{2cm}}$$

Section 5: Solving equations...

$$23) x + 5 = 3 \quad x = \underline{\hspace{2cm}}$$

$$24) -5y = 35 \quad y = \underline{\hspace{2cm}}$$

$$25) 3p - 7 = 14 \quad p = \underline{\hspace{2cm}}$$