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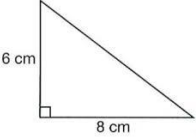
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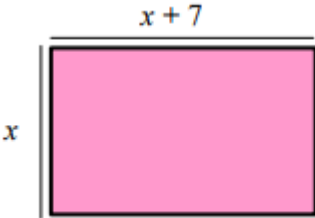
**Math Computation Entering 8<sup>th</sup> Grade**

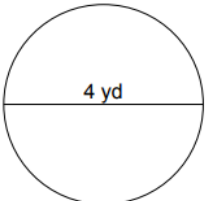
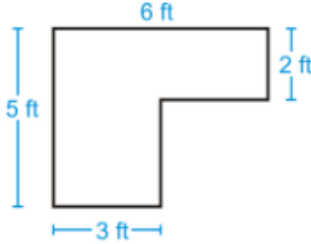
Directions: Complete as many problems as you can. Show your work on loose-leaf.

1) Fill in the blank box to show the ratio.  $\frac{4}{8} = \frac{\quad}{10}$	2) Find the unit rate of 5 apples for \$45.  \$_____ = 1 apple	3) Convert the fraction to a percent and a decimal. $\frac{3}{4} = \text{_____}\%$  $\frac{3}{4} = \text{_____}$	4) What is 15% of \$80?
5) Solve:  $2.253 + 0.595 =$	6) Solve:  $2.375 - 0.804 =$	7) Solve:  $7.4 \times 0.24 =$	8) Solve:  $15.4 \div 0.22 =$
9) $6\frac{1}{4} \times 2 =$	10) $3\frac{2}{5} \div \frac{7}{10} =$	11) Compare using <, >, =.  a. -4 <input type="checkbox"/> 7  b. 6 <input type="checkbox"/>  10	12) Solve:  $10^3 - 4^2 \times 2$

<p>13) Let <math>c = 7</math> and solve.</p> $3c - 11 =$	<p>14) Solve:</p> $x + 12 = 20$  $x = \underline{\quad}$	<p>15) Write an inequality.</p> <p>A number <math>x</math> is less than 15.</p> <hr/>	<p>16) What is the area of the triangle?</p>  <hr/>
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<p>17) Evaluate:</p> $-4 + 3 =$  $(-4) + (-3) =$	<p>18) Evaluate:</p> $3 - 7 =$  $(-3) - 7 =$	<p>19) Evaluate:</p> $-6g3 =$  $-6g(-3) =$	<p>20) Evaluate:</p> $32 \div (-8) =$  $(-32) \div (-8) =$
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<p>21) Solve for <math>k</math>.</p> $\frac{k}{8.4} = \frac{6.8}{11.2}$	<p>22) Find the perimeter. Simplify the expression.</p> 	<p>23) Scale Factor:</p> <p>2 inches = 12 miles</p> <p>7 inches = _____ miles</p>
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<p>24) Evaluate:</p> $\frac{1}{2} = \frac{\quad}{3}$	<p>25) Solve the equation:</p> $6y - 7 = 35$ $y = \underline{\hspace{2cm}}$	<p>26) Distribute the expression.</p> $6(2k - 3)$
<p>27) Solve the inequality:</p> $2n - 7 < 25$ $n < \underline{\hspace{2cm}}$	<p>28) Find the Circumference. Use 3.14 for <math>\pi</math>. <math>C = \pi d</math></p> 	<p>29) Find the Area.</p> 

<p>30) Solve for the variable.</p> $2x + 4 = 24$	<p>31) Solve for the variable.</p> $-3a - 12 = 24$	<p>32) Solve.</p> $-2 + -3 - 8 + 2$	<p>33) Solve.</p> $-4 - (-7) + 5 - 6$
<p>34) Write in standard form.</p> $2.9 \times 10^7 =$ $3.45 \times 10^5 =$	<p>35) Find the slope (m) and the y-intercept (b).</p> $y = 2x - 1$ $m = \underline{\hspace{2cm}}$ $b = \underline{\hspace{2cm}}$	<p>36) Write in prime factorization: 32</p>	

37) Solve for x.

$$2x + 2y + 10$$

**X**= \_\_\_\_\_

38) Solve for x and y.

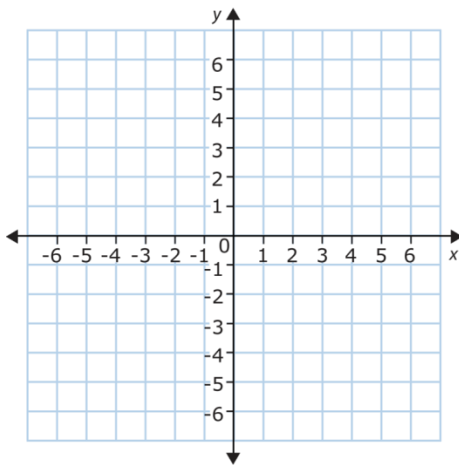
$$2x + y = 16$$

**X**= \_\_\_\_\_

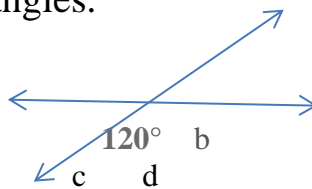
39) Solve for x.

$$-13 + 7x = -3(x + 11)$$

40) Graph  $y = 2x - 3$



41) Find the missing angles.



$$\angle a = 120^\circ$$

$$\angle b = \underline{\hspace{2cm}}^\circ$$

$$\angle c = \underline{\hspace{2cm}}^\circ$$

$$\angle d = \underline{\hspace{2cm}}^\circ$$

42) Find the Volume.

Use 3.14 for  $\pi$ .  $V = \pi r^2 gh$

