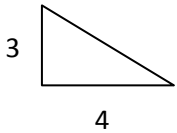


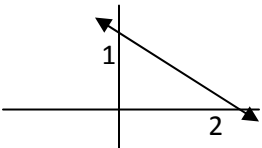
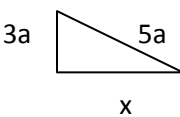
**PRACTICE PROBLEMS – Remember, calculators may not be used.** After you have prepared by reviewing the math you already know, *do as many problems as you know*. You do not have to know how to do all of them.

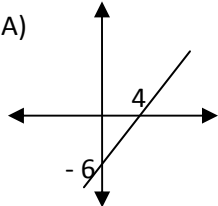
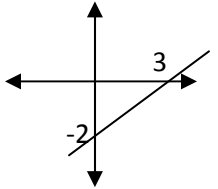
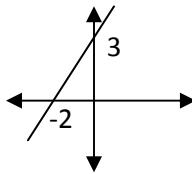
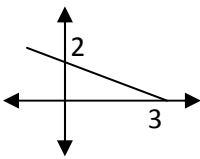
- If you are able to answer **25 to 35 questions**, we recommend you take the **Intermediate Algebra Placement Test**.
- If you are able to answer **15 to 24 questions**, we recommend you take the **Elementary Algebra Placement Test**.
- If you are able to answer **1 to 14 of the questions**, we recommend you take the **Algebra Readiness Placement Test**.

**You must bring this package with your completed problems when you come to the Assessment Center in A117 to make an appointment to take the assessment test.**

Please show your work neatly and circle your answer.

1) .29 can be written as  (A) $2\frac{9}{100}$ (B) $\frac{29}{100}$ (C) $\frac{29}{10}$ (D) $2\frac{9}{10}$	2) $.111 + 12.2 + 3.12 =$  (A) 15.431 (B) 16.43 (C) 435.2 (D) 43.511
3) $\frac{6}{7} \div \frac{2}{9} =$  (A) $\frac{4}{21}$ (B) $\frac{15}{14}$ (C) $\frac{3}{7}$ (D) $\frac{27}{7}$	4) $4\frac{3}{5} + 1\frac{4}{15} =$  (A) $5\frac{7}{15}$ (B) $5\frac{7}{20}$ (C) $5\frac{13}{15}$ (D) $5\frac{4}{25}$
5) $4 \times 2 \times 6 =$  (A) .36 (B) 16 (C) 12 (D) 48	6) $(-3) - [3(-4) + 7] =$  (A) -22 (B) 16 (C) 2 (D) -8
7) $3^7 \cdot 3^3$  (A) $3^{10}$ (B) $3^{21}$ (C) $9^{10}$ (D) $9^{21}$	8) 16 is 8% of what number?  (A) 80 (B) 20 (C) 4.8 (D) 200
9) If $x = 2$ , then $\frac{2 + 5x}{2 + x} =$  (A) 3 (B) $\frac{11}{3}$ (C) 5 (D) $\frac{7}{2}$	10) The area of the figure is    (A) 5 (B) 6 (C) 12 (D) 15

<p>11) If <math>x = -3</math> and <math>y = \frac{2}{3}</math>, evaluate <math>-5x^2 + 3y - x</math></p> <p>(A) 50 (B) -48 (C) 230 (D) -40</p>	<p>12) Solve for <math>x</math>: <math>-3x + 10 = -41</math></p> <p>(A) -17 (B) -48 (C) 17 (D) <math>-\frac{31}{3}</math></p>
<p>13) If <math>3x + 2y = 8</math> and <math>y = x - 1</math>, then <math>x =</math></p> <p>(A) -6 (B) <math>-\frac{4}{3}</math> (C) <math>-\frac{3}{4}</math> (D) 2</p>	<p>14) The inequality <math>7 - 2x &lt; 1</math> is equivalent to</p> <p>(A) <math>x &lt; 3</math> (B) <math>x &lt; -4</math> (C) <math>x &gt; 3</math> (D) <math>x &gt; -4</math></p>
<p>15) One solution of <math>x^2 - 4x = 12</math> is</p> <p>(A) 2 (B) 6 (C) 12 (D) 16</p>	<p>16) <math>(x^3 + 3y)(2x^3 + 3y) =</math></p> <p>(A) <math>2x^6 + 9y^2</math> (B) <math>2x^9 + 9x^3y + 9y</math> (C) <math>20x^9y^2</math> (D) <math>2x^6 + 9x^3y + 9y^2</math></p>
<p>17) <math>\frac{c}{d} + 2 =</math></p> <p>(A) <math>\frac{c+2d}{d}</math> (B) <math>\frac{c+d}{d+2}</math> (C) <math>\frac{c+d}{d}</math> (D) <math>c + 2d</math></p>	<p>18) <math>\frac{1}{x} + \frac{2}{x+1} =</math></p> <p>(A) <math>\frac{3}{2x+1}</math> (B) <math>\frac{x+3}{x(x+1)}</math> (C) <math>\frac{3x+1}{x(x+1)}</math> (D) <math>\frac{4}{x+1}</math></p>
<p>19) <math>\sqrt{3} + \sqrt{27}</math></p> <p>(A) 6 (B) <math>3\sqrt{3}</math> (C) <math>4\sqrt{3}</math> (D) <math>\sqrt{30}</math></p>	<p>20) A student who correctly answered 72 questions on a test received a score of 75%. How many questions were on the test?</p> <p>(A) 54            (C) 96 (B) 75            (D) 104</p>
<p>21) An equation of the line on the drawing is</p>  <p>(A) <math>y = -\frac{1}{2}x + 1</math> (B) <math>y = 2x + 1</math> (C) <math>y = x + 2</math> (D) <math>y = \frac{1}{2}x + 1</math></p>	<p>22) In the triangle at the right, <math>x =</math></p>  <p>(A) 2a (B) <math>\sqrt{34}a</math> (C) <math>16a^2</math> (D) 4a</p>
<p>23) One of the solutions of the equation <math>3x^2 - 2x - 8 = 0</math> is</p> <p>(A) <math>-\frac{4}{3}</math> (B) -2 (C) <math>\frac{2}{3}</math> (D) -4</p>	<p>24) <math>\frac{x^4y^9}{xy^{-3}}</math></p> <p>(A) <math>x^4y^6</math> (B) <math>x^3y^6</math> (C) <math>x^3y^{12}</math> (D) <math>x^4y^{12}</math></p>
<p>25) <math>\frac{x^{6n}x^2}{x^{2n}}</math></p> <p>(A) <math>x^5</math> (B) <math>x^{4n+2}</math> (C) <math>x^6</math> (D) <math>x^{16n}</math></p>	<p>26) If <math>2x + y = 8</math> and <math>x - y = 1</math>, then <math>y =</math></p> <p>(A) 3 (B) 5 (C) 2 (D) No solution for <math>y</math></p>

<p>27) The solutions to <math>y^2 - 2y + 3 = 0</math> are</p> <p>(A) <math>1 \pm i\sqrt{2}</math>            (B) 3 and -1            (C) <math>\pm 2i\sqrt{2}</math>            (D) <math>1 \pm 2\sqrt{2}</math></p>	<p>28. <math>2x - 3[2x - (3 - 4x)] =</math></p> <p>(A) <math>8x - 9</math>            (B) <math>-8x + 3</math>            (C) <math>9 - 16x</math>            (D) <math>12x^2 - 24x + 9</math></p>
<p>29) <math>\sqrt[3]{4}\sqrt[3]{12}</math></p> <p>(A) <math>4\sqrt[3]{3}</math>            (B) <math>2\sqrt[3]{6}</math>            (C) <math>\sqrt[6]{48}</math>            (D) <math>2\sqrt[3]{2}</math></p>	<p>30) <math>\frac{x^2 + 4x}{x^2 + 4} \cdot \frac{(x+2)^2}{x^2}</math></p> <p>(A) <math>(x+2)^2/x</math>            (B) <math>(x+4)/x</math>            (C) <math>4x</math>            (D) <math>(x+4)(x+2)^2/(x^3 + 4x)</math></p>
<p>31) If <math>f(x) = \frac{x^2 + 5}{x - 1}</math>, then <math>f(-3) =</math></p> <p>(A) <math>-7/2</math>            (B) 1            (C) -7            (D) <math>14/3</math></p>	<p>32) If <math>\log_2 x = 3</math>, then <math>x =</math></p> <p>(A) <math>^3\sqrt{2}</math>            (B) 6            (C) 8            (D) 9</p>
<p>33) If <math>\frac{2}{3}</math> is <math>\frac{1}{2}</math> of <math>\frac{1}{6}</math> of a certain number, then that number is</p> <p>(A) <math>15/4</math>            (B) <math>5/3</math>            (C) <math>5/6</math>            (D) <math>5/12</math></p>	<p>34) The point <math>(?, -3)</math> is on the graph of <math>5x - y = 3x - 5</math>.</p> <p>(A) <math>(-1, -3)</math>            (B) <math>(5, -3)</math>            (C) <math>(29, -3)</math>            (D) <math>(-4, -3)</math></p>
<p>35) Which of the following could be a part of the graph of <math>2x - 3y = 6</math>?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>(A)</p>  </div> <div style="text-align: center;"> <p>(B)</p>  </div> <div style="text-align: center;"> <p>(C)</p>  </div> <div style="text-align: center;"> <p>(D)</p>  </div> </div>	

Answers:									
1) B	2) A	3) D	4) C	5) C	6) C	7) A	8) D	9) A	10) B
11) D	12) C	13) D	14) C	15) B	16) D	17) A	18) C	19) C	20) C
21) A	22) D	23) A	24) C	25) B	26) C	27) A	28) C	29) B	30) D
31) A	32) C	33) B	34) D	35) B					