END OF COURSE
ALGEBRA I

Form M0119, CORE 1

This released test contains 3 fewer test items (#1-47 only) than an original SOL EOC Algebra I test.
Algebra I Formula Sheet

Geometric Formulas

\[ V = \frac{1}{3} \pi r^2 h \]
\[ S.A. = \pi r(l + r) \]

\[ V = lwh \]
\[ S.A. = 2(lw + lh + wh) \]

\[ V = \frac{1}{3} Bh \]
\[ S.A. = \frac{1}{2} lp + B \]

\[ p = 4s \]
\[ A = s^2 \]

\[ p = 2(l + w) \]
\[ A = lw \]

\[ A = \frac{1}{2} h(b_1 + b_2) \]

\[ A = \pi r^2 \]

\[ C = 2\pi r \]

\[ c^2 = a^2 + b^2 \]

Abbreviations

<table>
<thead>
<tr>
<th>Milligram</th>
<th>Mg</th>
<th>Ounce</th>
<th>Oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gram</td>
<td>G</td>
<td>Pound</td>
<td>Lb</td>
</tr>
<tr>
<td>Kilogram</td>
<td>Kg</td>
<td>Quart</td>
<td>Qt</td>
</tr>
<tr>
<td>Milliliter</td>
<td>mL</td>
<td>Gallon</td>
<td>Gal.</td>
</tr>
<tr>
<td>Liter</td>
<td>L</td>
<td>Inch</td>
<td>In.</td>
</tr>
<tr>
<td>Kiloliter</td>
<td>kL</td>
<td>Foot</td>
<td>Ft</td>
</tr>
<tr>
<td>Millimeter</td>
<td>mm</td>
<td>Yard</td>
<td>Yd</td>
</tr>
<tr>
<td>Centimeter</td>
<td>cm</td>
<td>Mile</td>
<td>Mi.</td>
</tr>
<tr>
<td>Meter</td>
<td>M</td>
<td>Square Inch</td>
<td>Sq In.</td>
</tr>
<tr>
<td>Kilometer</td>
<td>Km</td>
<td>Square Foot</td>
<td>Sq Ft</td>
</tr>
<tr>
<td>Square Centimeter</td>
<td>Cm^2</td>
<td>Cubic Inch</td>
<td>Cu In.</td>
</tr>
<tr>
<td>Cubic Centimeter</td>
<td>Cm^3</td>
<td>Cubic Foot</td>
<td>Cu Ft</td>
</tr>
</tbody>
</table>

| Volume          | V                   | Year       | Yr        |
| Total Surface Area| S.A.             | Month      | Mon       |
| Area of Base    | B                   | Hour       | Hr        |
| Minute          | Min                 | Second     | Sec       |

Pi

\[ \pi \approx 3.14 \]
\[ \pi \approx \frac{22}{7} \]

Quadratic Formula

\[ x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \]
SAMPLE

If $f(x) = x^2 + 2x + 3$, what is the value of $f(x)$ when $x = 6$?

A  27
B  42
C  51
D  60
1. What is the solution to the inequality below?

\[ 2x - 7 \geq 15 \]

A. \( x \leq 8 \)  
B. \( x \geq 8 \)  
C. \( x \leq 11 \)  
D. \( x \geq 11 \)

2. Which number is a zero of the function \( f \)?

\[ f(x) = x^2 - x - 6 \]

F. 0  
G. 2  
H. 3  
J. 6

3. If \( 2n = 6 \), what property of equality justifies writing

\[ p + 2n = 4p + 15 \]

as \( p + 6 = 4p + 15 \)?

A. Addition property  
B. Transitive property  
C. Symmetric property  
D. Substitution property
4. The equation $y = 3x$ is shown on the graph below.

Which is most likely the graph of $y = 3x + 2$?

- F
- G
- H
- J
5 What is the slope of the line represented by the following equation?

\[ y = 2x - 1 \]

A 1
B 2
C 1
D 2

6 Kristen heard that it is 82° Fahrenheit outside. She knows that 

\[ F = \frac{9}{5}C + 32, \]

where \( F \) represents the temperature in degrees Fahrenheit and \( C \) represents the temperature in degrees Celsius. Which is closest to the temperature outside, in degrees Celsius?

F 28
G 63
H 90
J 180
7 What is the solution to the system of linear equations below?

\[
\begin{align*}
    x + y &= 5 \\
x - y &= 3
\end{align*}
\]

A (8, -3)  
B (6, -1)  
C (5, 2)  
D (4, 1)

8 Which equation best describes the line whose graph is shown?

F \( y = x + 3 \)  
G \( y = 3x \)  
H \( y = 3 \)  
J \( x = 3 \)
Which graph best represents the following inequality?

\[ y \leq -\frac{1}{3}x + 2 \]
10  Candice plotted the points (2, 15) and (0, -1) and then drew a line through these two points. What is the slope of the line she drew?

F  \( \frac{1}{8} \)

G  \( \frac{1}{7} \)

H  7

J  8

11  Which of the following is the solution set to the equation \( x^2 - 3x - 28 = 0 \)?

A  \{ -28, 1 \}

B  \{ -4, 7 \}

C  \{ -2, 14 \}

D  \{ 0, 28 \}
12 Ralph spent $132 to buy movie tickets for 20 students and 4 adult chaperones. Adult tickets cost $3 more than student tickets. If $A$ is the price of an adult ticket and $S$ is the price of a student ticket, which system of equations could be used to find the price of each adult and student ticket?

**F**

\[
\begin{align*}
S &= A + 3 \\
4A + 20S &= 132
\end{align*}
\]

**G**

\[
\begin{align*}
A &= S + 3 \\
4A + 20S &= 132
\end{align*}
\]

**H**

\[
\begin{align*}
A + S &= 3 \\
20A + 4S &= 132
\end{align*}
\]

**J**

\[
\begin{align*}
A &= S + 3 \\
A + S &= 132
\end{align*}
\]

13 What is the slope of the line represented by the following equation?

\[4x - y + 3 = 0\]

**A** $-1$

**B** $\frac{3}{4}$

**C** $\frac{4}{3}$

**D** $4$
14 Which is an equation of the line that passes through the points (5, 15) and (10, 20)?

F  \( y = x + 10 \)

G  \( y = x - 30 \)

H  \( y = x + 30 \)

J  \( y = x + 15 \)

15 What is the solution of the system of equations shown?

\[
\begin{align*}
2x + 5y &= 8 \\
6x + 4y &= -20
\end{align*}
\]

A  \((-6, 4)\)

B  \((6, -14)\)

C  \((14, -4)\)

D  \((-6, -4)\)

16 What is the solution to the following equation?

\[3(x + 5) - 10 = -2(x + 10)\]

F  \(-7\)

G  \(-5\)

H  \(1\)

J  \(3\)
17  Which is an equation of a line with a slope of 3 that passes through the origin?
   A  \( x = 3 \)
   B  \( y = 3 \)
   C  \( x = 3y \)
   D  \( y = 3x \)

18  Which of the following equals \( 3x^2 - 10x - 8 \) when factored completely?
   F  \( (3x - 4)(x + 2) \)
   G  \( (3x - 1)(x + 8) \)
   H  \( (3x + 8)(x - 1) \)
   J  \( (3x + 2)(x - 4) \)

19  What is \( \sqrt{192} \) expressed in simplest radical form?
   A  \( 8\sqrt{3} \)
   B  \( 6\sqrt{5} \)
   C  \( 4\sqrt{12} \)
   D  \( 2\sqrt{48} \)
20 What is the value of the expression $3(x + 4) - 2y$, if $x = 5$ and $y = -3$?

- F  -7
- G  11
- H  21
- J  33

21 What is the value of the expression $\frac{1}{4}(x^2 - y^3)$ when $x = 5$ and $y = 1$?

- A  $\frac{7}{4}$
- B  $\frac{11}{2}$
- C  6
- D  31

22 Which expression is equivalent to $3x^2(4x^2 + 2x + 1)$?

- F  $7x^2 + 5x + 4$
- G  $7x^4 + 5x^3 + 4x^2$
- H  $12x^2 + 6x + 3$
- J  $12x^4 + 6x^3 + 3x^2$
Based on the models for $x^2$, $x$, and 1, which product is represented by the diagram?

A. $(x + 1)(x + 3)$

B. $(2x + 3)(x + 1)$

C. $(2x^2 + 3)(x + 1)$

D. $(x^2 + x)(2x^2 + 3x)$

24 Which labeled point on the number line is closest to the square root of 85?

F. $W$

G. $X$

H. $Y$

J. $Z$
25 Which polynomial is equivalent to the following expression?

\[(3x^2 - 2x + 5) - (2x^2 - 5x + 1)\]

A \( x^2 + 3x + 4 \)
B \( x^2 - 7x + 6 \)
C \( x^2 - 3x - 6 \)
D \( x^2 - 7x + 4 \)

26 Which of the following is equivalent to \( \frac{x^4y^3}{x^3y^4} \)?

F \( \frac{x}{y} \)
G \( \frac{y}{x} \)
H \( xy \)
J \( x^7y^7 \)

27 A factored form of \( x^2 + 5x - 24 \) is —

A \( (x - 4)(x + 6) \)
B \( (x - 3)(x + 8) \)
C \( (x - 2)(x + 12) \)
D \( (x - 6)(x + 4) \)
28 Which is equivalent to the following expression?

\[ (-2xy)^3 \]

- F \(-2xy^3\)
- G \(-2x^3y^3\)
- H \(-6x^3y^3\)
- J \(-8x^3y^3\)

29 The length of a certain rectangle is six more than three times its width. If the width of the rectangle is 4 units, what is its length?

- A 10
- B 13
- C 18
- D 27
30 Which of the following graphs shows a direct variation?
31 Which graph apparently represents a function of \( x \)?
32 If \( f(x) = \frac{\sqrt{9-x}}{4} \) what is \( f(5) \) ?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>( \frac{3 - \sqrt{5}}{4} )</td>
</tr>
<tr>
<td>G</td>
<td>( \frac{1}{2} )</td>
</tr>
<tr>
<td>H</td>
<td>( \frac{\sqrt{14}}{4} )</td>
</tr>
<tr>
<td>J</td>
<td>1</td>
</tr>
</tbody>
</table>
33  What is the range of the function shown?

A  $-2 \leq x \leq 7$
B  $-3 \leq x \leq 6$
C  $-2 \leq y \leq 7$
D  $-3 \leq y \leq 6$
34  The table gives the cost for different numbers of 100-sheet notebooks. The cost, \( C \), varies directly as the number of notebooks, \( n \).

<table>
<thead>
<tr>
<th>Number of notebooks ((n))</th>
<th>Cost ((C))</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$4.30</td>
</tr>
<tr>
<td>4</td>
<td>$8.60</td>
</tr>
<tr>
<td>6</td>
<td>$12.90</td>
</tr>
<tr>
<td>8</td>
<td>$17.20</td>
</tr>
</tbody>
</table>

Which equation represents the relationship shown in the table?

F  \[ C = \frac{2.15}{n} \]

G  \[ C = 4.30n \]

H  \[ C = 2.15n \]

J  \[ C = 2.15 + n \]

35  A function of \( x \) consists of five ordered pairs of the form \((x, y)\). Four of the ordered pairs are shown below.

\[(1, 9), (3, 19), (5, 29), (7, 39)\]

Which could be the 5th ordered pair of the function?

A  (9, 8)

B  (1, 49)

C  (5, 19)

D  (3, 9)
36  The number of miles, \( m \), a car can travel varies directly with the amount of gas, \( g \), in its fuel tank. If \( k \) is the constant of variation, which equation represents that situation?

\[
\begin{array}{ll}
F & m = \frac{k}{g} \\
G & m = \frac{g}{k} \\
H & m = kg \\
J & m = g + k
\end{array}
\]

37  The function \( f(x) = 1200 - 50x \) gives the distance left to travel after driving \( x \) hours. What is \( f(9) \), the distance left to travel after driving 9 hours?

\[
\begin{array}{ll}
A & 450 \text{ miles} \\
B & 691 \text{ miles} \\
C & 750 \text{ miles} \\
D & 850 \text{ miles}
\end{array}
\]

38  Which is a zero of the function defined by the following equation?

\( f(x) = x(x + 2) \)

\[
\begin{array}{ll}
F & -2 \\
G & -1 \\
H & 1 \\
J & 2
\end{array}
\]
39  The relationship shown in the table is a direct variation.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>x</td>
<td>y</td>
</tr>
<tr>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>8</td>
<td>24</td>
</tr>
</tbody>
</table>

Which equation best represents this relationship?

A  \[ y = 4x - 5 \]

B  \[ y = x + 10 \]

C  \[ y = 3x \]

D  \[ y = \frac{1}{3}x \]

40  Which of the following represents the domain of the relation shown?

F  \{A, B, C, D\}

G  \{A, B, 150, 250\}

H  \{150, 250, 350, 450\}

J  \{A, 150, B, 250, C, 350, D, 450\}
Christy and Claire take piano lessons. Their practice times for the past week are shown in the matrix.

\[
\begin{bmatrix}
20 & 10 & 15 & 20 \\
0 & 5 & 15 & 30
\end{bmatrix}
\]

Which matrix could represent the new practice schedule if their teacher wants them to practice twice as much this week?

A \[
\begin{bmatrix}
10 & 5 & 7.5 & 10 \\
0 & 2.5 & 7.5 & 15
\end{bmatrix}
\]

B \[
\begin{bmatrix}
40 & 20 & 30 & 40 \\
0 & 5 & 15 & 30
\end{bmatrix}
\]

C \[
\begin{bmatrix}
40 & 20 & 30 & 40 \\
0 & 10 & 30 & 60
\end{bmatrix}
\]

D \[
\begin{bmatrix}
22 & 12 & 17 & 22 \\
2 & 7 & 17 & 32
\end{bmatrix}
\]
42 \[
\begin{bmatrix}
1 & 7 \\
6 & 3
\end{bmatrix}
- 
\begin{bmatrix}
4 & -8 \\
2 & -1
\end{bmatrix}
= F
\]
\[
\begin{bmatrix}
3 & 15 \\
-4 & 4
\end{bmatrix}
\]
\[
G
\begin{bmatrix}
3 & 15 \\
4 & 4
\end{bmatrix}
\]
\[
H
\begin{bmatrix}
-4 & 56 \\
-12 & 3
\end{bmatrix}
\]
\[
J
\begin{bmatrix}
-3 & -1 \\
4 & 2
\end{bmatrix}
\]

43 This table shows the wind chill at 40°F for various wind speeds.

<table>
<thead>
<tr>
<th>Wind Speed (miles per hour), ( s )</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wind Chill (°F), ( t )</td>
<td>36</td>
<td>34</td>
<td>32</td>
<td>30</td>
<td>29</td>
<td>28</td>
<td>27</td>
<td>26</td>
<td>25</td>
</tr>
</tbody>
</table>

Which equation most closely represents a line of best fit for the data?

A  \( t = -0.2s + 35 \)

B  \( t = 0.2s - 35 \)

C  \( t = -35s + 0.2 \)

D  \( t = 35s - 0.2 \)
44 Which matrix is equivalent to \[
\begin{bmatrix}
6 \\
-3 \\
-9
\end{bmatrix}
\]?

\[
F = \begin{bmatrix}
2 \\
-1 \\
-3
\end{bmatrix}
\]

\[
G = \begin{bmatrix}
18 \\
-3 \\
-9
\end{bmatrix}
\]

\[
H = \begin{bmatrix}
18 \\
-9 \\
-27
\end{bmatrix}
\]

\[
J = \begin{bmatrix}
6 \\
-9 \\
-9
\end{bmatrix}
\]
45  The chart below shows the scores for each of the first 10 basketball games for the Hawks and the Blue Jays.

<table>
<thead>
<tr>
<th>Hawks</th>
<th>Blue Jays</th>
</tr>
</thead>
<tbody>
<tr>
<td>95</td>
<td>91</td>
</tr>
<tr>
<td>93</td>
<td>103</td>
</tr>
<tr>
<td>93</td>
<td>93</td>
</tr>
<tr>
<td>93</td>
<td>76</td>
</tr>
<tr>
<td>82</td>
<td>91</td>
</tr>
<tr>
<td>81</td>
<td>95</td>
</tr>
<tr>
<td>80</td>
<td>90</td>
</tr>
<tr>
<td>103</td>
<td>104</td>
</tr>
<tr>
<td>87</td>
<td>95</td>
</tr>
<tr>
<td>98</td>
<td>95</td>
</tr>
</tbody>
</table>

Which of the following is true?

A  The mode for the Hawks is less than the mode for the Blue Jays.
B  The mean for the Blue Jays is less than the mean for the Hawks.
C  The median for the Hawks is greater than the median for the Blue Jays.
D  The range for the Hawks is greater than the range for the Blue Jays.
Easy Street Deli serves sandwiches with 3 choices of bread and 3 choices of meat. The tables show the number of each type of sandwich sold on Monday and Tuesday.

### Monday

<table>
<thead>
<tr>
<th></th>
<th>White Bread</th>
<th>Wheat Bread</th>
<th>Rye Bread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ham</td>
<td>41</td>
<td>55</td>
<td>43</td>
</tr>
<tr>
<td>Roast Beef</td>
<td>29</td>
<td>56</td>
<td>21</td>
</tr>
<tr>
<td>Turkey</td>
<td>50</td>
<td>30</td>
<td>28</td>
</tr>
</tbody>
</table>

### Tuesday

<table>
<thead>
<tr>
<th></th>
<th>White Bread</th>
<th>Wheat Bread</th>
<th>Rye Bread</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ham</td>
<td>56</td>
<td>70</td>
<td>34</td>
</tr>
<tr>
<td>Roast Beef</td>
<td>67</td>
<td>54</td>
<td>40</td>
</tr>
<tr>
<td>Turkey</td>
<td>50</td>
<td>32</td>
<td>29</td>
</tr>
</tbody>
</table>

Which matrix shows the difference between the number of different sandwiches sold on Tuesday and the number sold on Monday?

- **F**
  
  \[
  \begin{bmatrix}
  21 \\
  55 \\
  3
  \end{bmatrix}
  \]

- **G**
  
  \[
  \begin{bmatrix}
  15 & 15 & -9 \\
  38 & -2 & 19 \\
  0 & 2 & 1
  \end{bmatrix}
  \]

- **H**
  
  \[
  \begin{bmatrix}
  97 & 125 & 77 \\
  96 & 110 & 61 \\
  100 & 62 & 57
  \end{bmatrix}
  \]

- **J**
  
  \[
  \begin{bmatrix}
  15 & 15 & 9 \\
  38 & 2 & 19 \\
  0 & 2 & 1
  \end{bmatrix}
  \]


The male and female teachers at Mountainview School recorded the number of years they have been teaching at the school. The box-and-whisker plots summarize the data.

Which statement is **false**?

A  The teacher with the least number of years teaching is female.
B  The range in the years teaching is greater for male teachers than for female teachers.
C  The difference in the maximum number of years teaching for male and female teachers is 1.
D  The median number of years teaching for female teachers is 2 less than the median for male teachers.
<table>
<thead>
<tr>
<th>Test Sequence Number</th>
<th>Correct Answer</th>
<th>Reporting Category</th>
<th>Reporting Category Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>3</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>4</td>
<td>H</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>5</td>
<td>D</td>
<td>003</td>
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<td>6</td>
<td>F</td>
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<td>Equations and Inequalities</td>
</tr>
<tr>
<td>7</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>8</td>
<td>J</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>9</td>
<td>A</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>11</td>
<td>B</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>12</td>
<td>G</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>13</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>14</td>
<td>F</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>15</td>
<td>A</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>16</td>
<td>G</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>17</td>
<td>D</td>
<td>003</td>
<td>Equations and Inequalities</td>
</tr>
<tr>
<td>18</td>
<td>J</td>
<td>001</td>
<td>Expressions and Operations</td>
</tr>
<tr>
<td>19</td>
<td>A</td>
<td>001</td>
<td>Expressions and Operations</td>
</tr>
<tr>
<td>20</td>
<td>J</td>
<td>001</td>
<td>Expressions and Operations</td>
</tr>
<tr>
<td>21</td>
<td>C</td>
<td>001</td>
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