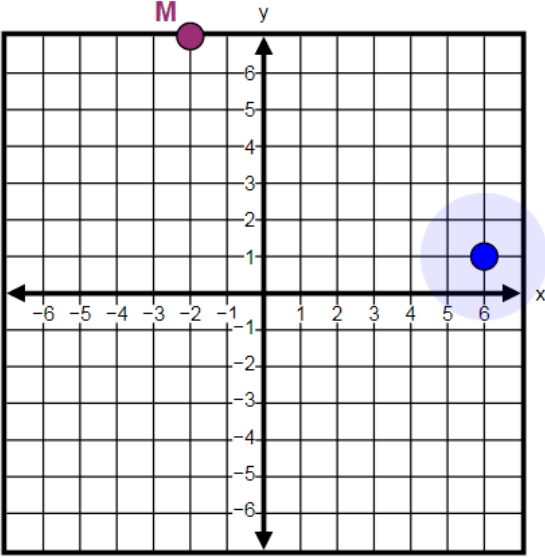


Item Number	Answer Key	Evidence Statement Key																				
1.	D, E, F, G	8.F.1-1																				
2.	$m = \frac{59}{85}$ or equivalent	8.EE.7b																				
3.	<table border="1"> <thead> <tr> <th>Value of x</th> <th>Solution of $x^2 = 30$</th> <th>Solution of $x^3 = 30$</th> <th>Solution of Neither $x^2 = 30$ nor $x^3 = 30$</th> </tr> </thead> <tbody> <tr> <td>$x = \sqrt{30}$</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$x = -\sqrt{30}$</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$x = \sqrt[3]{30}$</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$x = -\sqrt[3]{30}$</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table>	Value of x	Solution of $x^2 = 30$	Solution of $x^3 = 30$	Solution of Neither $x^2 = 30$ nor $x^3 = 30$	$x = \sqrt{30}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	$x = -\sqrt{30}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	$x = \sqrt[3]{30}$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	$x = -\sqrt[3]{30}$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	8.EE.2
Value of x	Solution of $x^2 = 30$	Solution of $x^3 = 30$	Solution of Neither $x^2 = 30$ nor $x^3 = 30$																			
$x = \sqrt{30}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																			
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4.	<table border="1"> <thead> <tr> <th>System of Equations</th> <th>No Solution</th> <th>One Solution</th> <th>Infinitely Many Solutions</th> </tr> </thead> <tbody> <tr> <td>$2x + y = 4$ $-4x - 2y = -8$</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>$x = 1$ $y = 4$</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$y = 2x - 5$ $y = 2x + 5$</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$y = 2x + 1$ $y = -3x + 1$</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>	System of Equations	No Solution	One Solution	Infinitely Many Solutions	$2x + y = 4$ $-4x - 2y = -8$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	$x = 1$ $y = 4$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	$y = 2x - 5$ $y = 2x + 5$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	$y = 2x + 1$ $y = -3x + 1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.EE.8b-3
System of Equations	No Solution	One Solution	Infinitely Many Solutions																			
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$y = 2x + 1$ $y = -3x + 1$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
5.	D, F	8.F.3-2																				
6.	C	8.EE.8a																				
7.	C	8.NS.1																				
8.	A	8.G.1a																				
9.	D	8.F.1-2																				

	Expression	Equivalent to 3^2	Equivalent to 3^{-2}	Neither Equivalent to 3^2 nor 3^{-2}	
10.	$(3^{-1})^2$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.EE.1
	$(3^{-1})^{-1}$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	$(\frac{1}{3})^2$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	$(\frac{1}{3})^{-2}$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11.	D				8.SP.1
12.	A				8.EE.5-1
13.	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid gray; padding: 5px; width: 30%; text-align: center;"> <p>Slope of the function is greater than the slope of Function 1</p> </div> <div style="border: 1px solid gray; padding: 5px; width: 30%; text-align: center;"> <p>Slope of the function is equal to the slope of Function 1</p> <div style="border: 1px solid blue; padding: 2px; display: inline-block; margin-top: 5px;">$y = 3 + 2x$</div> </div> <div style="border: 1px solid gray; padding: 5px; width: 30%; text-align: center;"> <p>Slope of the function is less than the slope of Function 1</p> <div style="border: 1px solid blue; padding: 2px; display: inline-block; margin-top: 5px;">$y = 2$</div> <div style="border: 1px solid blue; padding: 2px; display: inline-block; margin-top: 5px;">$y = \frac{3}{2}x + 6$</div> </div> </div>				8.F.2
14.	See Rubric				8.C.3-3
15.	Part A: 0.2 inches or equivalent Part B: $y = 48 - 0.2x$ or equivalent				8.F.4
16.	Part A: 147 cubic inches Part B: 49 cubic inches Part C: 6 inches or 7 inches Part D: 1 inch or 2 inches				8.G.9
17.	A, C, E				8.SP.4

18.		8.G.8
19.	1.25	8.EE.5-2
20.	Part A: See Rubric Part B: See Rubric	8.D.2
21.	Part A: $s = 8 + t$ or equivalent and $10s + 15t = 305$ or equivalent 17 small chairs and 9 large chairs, or correct values based on incorrect system of equations Part B: B Part C: Number of small chairs: <input type="text" value="14"/> ▾ Number of large chairs: <input type="text" value="4"/> ▾	8.EE.8c
22.	B, F	8.F.2

#14 Rubric

Score	Description
3	<p>Student response includes the following 3 elements.</p> <ul style="list-style-type: none"> • Reasoning component = 3 points <ul style="list-style-type: none"> ○ The component has 3 parts, each worth 1 point. <p>Part 1: The student explains why the sum of the measures of angles 4 and 5 is 180 degrees. For example: "The angles 4 and 5 are on the same side of a transversal that cuts two parallel lines. Therefore, sum of the measures of angle 5 and angle 4 is 180 degrees."</p> <p>Note:</p> <ul style="list-style-type: none"> • The student must use correct mathematical language (e.g. "same side interior angles") in his or her reasoning to receive the point for this part. <p>Part 2: The student explains why the sum of the measures of angles 9 and 10 is 180 degrees. For example: "The angles 9 and 10 form a straight line. Therefore, the sum of the measures of angle 10 and angle 9 is 180 degrees."</p> <p>Note:</p> <ul style="list-style-type: none"> • The student must use correct mathematical language (e.g. "linear pair") in his or her reasoning to receive the point for this part. <p>Part 3: The student explains that since the sum of the measures of angles 4 and 5 is 180 degrees, and that the sum of the measures of angles 9 and 10 is 180 degrees, then $m\angle 4 + m\angle 5 = m\angle 10 + m\angle 9$.</p> <p>Note:</p> <ul style="list-style-type: none"> • If a student provides only the following equations, the total points earned would not be greater than 1 point. $m\angle 4 + m\angle 5 = 180^\circ$ $m\angle 10 + m\angle 9 = 180^\circ$ so $m\angle 4 + m\angle 5 = m\angle 10 + m\angle 9$
2	Student response includes 2 of the above elements.
1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.

#20 Rubric Part A

Score	Description
2	Student response includes the following 2 elements. <ul style="list-style-type: none">• Correct commission for June• Correct hourly wage Sample Student Response: Commission: $0.04 \times 8,625.00 = 345.00$ Wages not from commission: $1005 - 345 = 660$ Hourly wage: $\frac{660}{60} = \$11.00$ per hour
1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.

#20 Rubric Part B

Score	Description
4	Student response includes each of the following 4 elements. <ul style="list-style-type: none">• Shows amount saved in June, July, and August and amount she still needs to save• Shows correct base salary for September and amount she still needs in commission• Shows correct amount of sales she needs in September.• Correct work or explanation Sample Student Response: Jennifer saved 1,025 June, July, and August. $(1005 - 600) + (884 - 600) + (936 - 600) = 1025$ She still needs to save \$475. $1500 - 1025 = 475$ The base salary for September is \$880. $80 \times 11 - 600 = 280$ She still needs to make \$195 in commission. $475 - 280 = 195$ The minimum amount of sales to earn \$195 is \$4,875. $195 \div 0.04 = 4875$ Or The minimum amount of sales is \$4,875.

$$\frac{(1500 - [(1005 - 600) + (884 - 600) + (936 - 600) + (80 \times 11 - 600)])}{0.04}$$

Note:

Responses that use valid strategies to determine the minimum amount of sales needed in September to meet the goal of saving at least \$1,500 that do not match the example provided in the Rubric will be evaluated as follows:

- Responses which provide a valid strategy with complete and correct work or explanation will earn a score of 4.
- Responses which provide a valid strategy with mostly complete work or explanation **OR** complete work or explanation with only 1 minor calculation error will earn a score of 3.
- Responses which provide a valid strategy with incomplete work or explanation and/or multiple calculation errors will earn a score of 2 **OR** a complete strategy and work with a conceptual flaw.
- Responses which provide an incomplete strategy and work or explanation which demonstrate sufficient understanding beyond the basic information provided in the prompt will earn a score of 1.

3	Student response includes 3 of the above elements.
2	Student response includes 2 of the above elements.
1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.