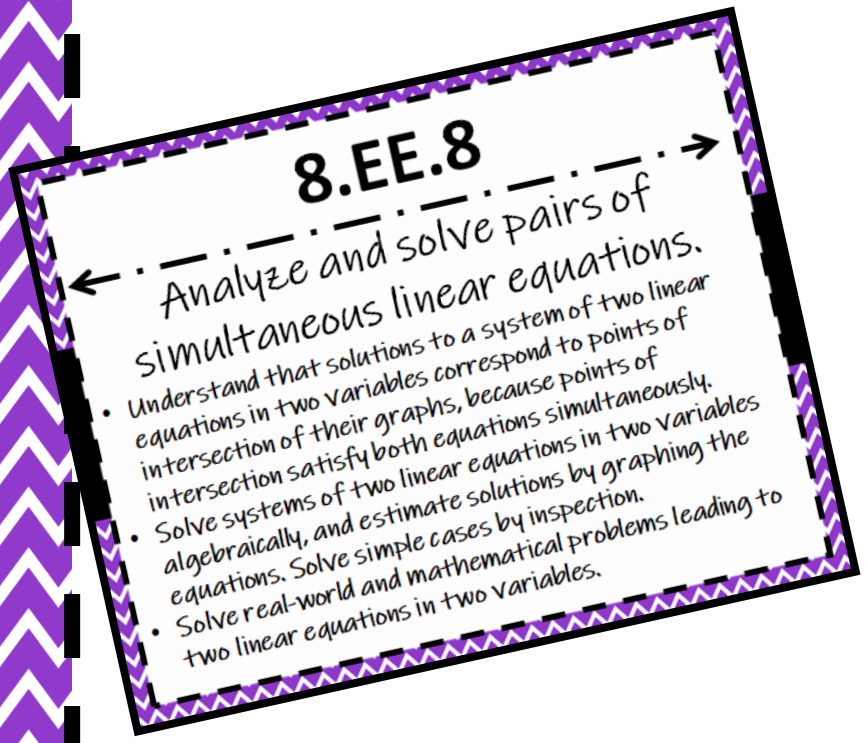
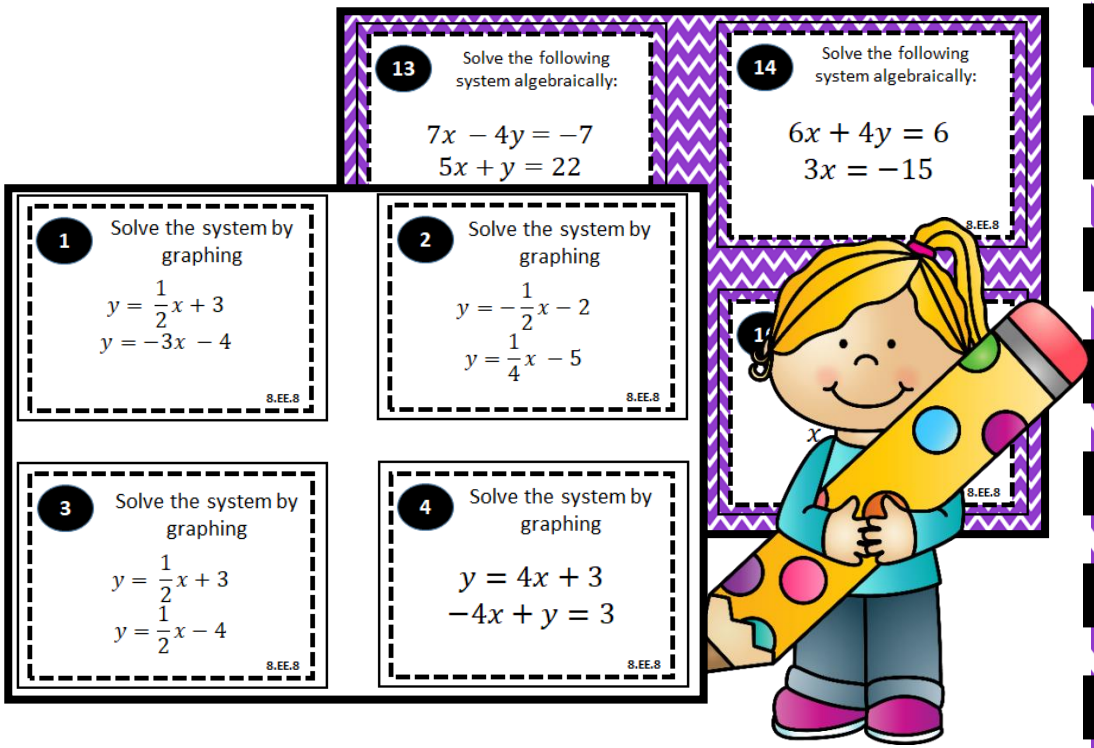
Expressions & Equations Task Cards 8.EE.8

20 Task Cards, Recording Sheet, Answer Sheet





Created by:
Math in the Midwest

8.EE.8

Analyze and solve pairs of simultaneous linear equations.

- Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.
- Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.
- Solve real-world and mathematical problems leading to two linear equations in two variables.

1

Solve the system by graphing

$$y = \frac{1}{2}x + 3$$
$$y = -3x - 4$$

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2

Solve the system by graphing

$$y = -\frac{1}{2}x - 2$$
$$y = \frac{1}{4}x - 5$$

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3

Solve the system by graphing

$$y = \frac{1}{2}x + 3$$
$$y = \frac{1}{2}x - 4$$

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4

Solve the system by graphing

$$y = 4x + 3$$
$$-4x + y = 3$$

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5

Solve the following system algebraically:

$$x = 8$$
$$2x + y = 20$$

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6

Solve the following system algebraically:

$$y = -3$$
$$2x + 3y = 17$$

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7

Solve the following system algebraically:

$$x = -2y$$
$$x - y = 9$$

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8

Solve the following system algebraically:

$$x = 3y + 1$$
$$2x + 4y = 12$$

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9

Solve the following system algebraically:

$$x = 8y$$
$$x - 8y = 0$$

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10

Solve the following system algebraically:

$$2x + y = 20$$
$$6x - 5y = 12$$

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11

Solve the following system algebraically:

$$-3x + 3y = 4$$
$$-x + y = 3$$

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12

Solve the following system algebraically:

$$y = -3x - 3$$
$$y = -3$$

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13

Solve the following system algebraically:

$$7x - 4y = -7$$
$$5x + y = 22$$

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14

Solve the following system algebraically:

$$6x + 4y = 6$$
$$3x = -15$$

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15

Solve the following system algebraically:

$$2x + y = 11$$
$$7x = 14$$

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16

Solve the following system algebraically:

$$-x + 9y = -5$$
$$x - 5y = 1$$

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17

The Washington Middle School choir is having a fundraiser. They sold a total of 300 hotdog and hamburgers. Hot dogs sold for $2 and hamburgers sold for $3. They made a total of $780. How many individual hamburgers and hotdogs did they sell?

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18

Mrs. Jay took her family and friends to the movies. There were a total of 16 people. Children tickets cost $6 and adult tickets cost $9. She spent a total of $129. How many adults went the movies?

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19

Last season two running backs on an NFL team rushed for a combined total of 1550 yards. One rushed 4 times as many yards as the other. How many yards were rushed by each player?

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20

At a restaurant the cost for a taco and a soft drink is $2.10. The cost for 2 tacos and 3 soft drinks is $5.15. Determine the cost of a taco and the cost of a soft drink.

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21

8.EE.8

22

8.EE.8

23

8.EE.8

24

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8.EE.8

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22

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24

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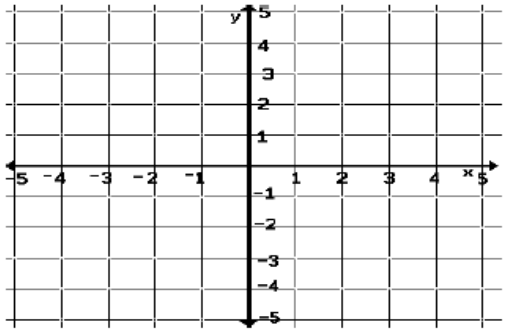
Name _____ Hour _____

8.EE.8 Recording Sheet

1.



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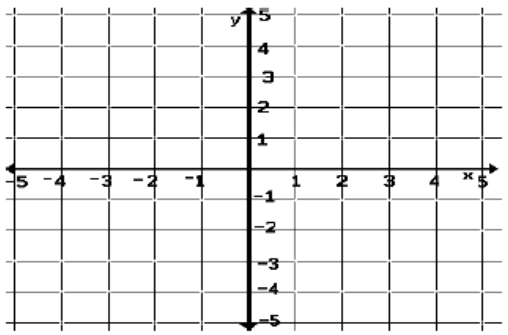

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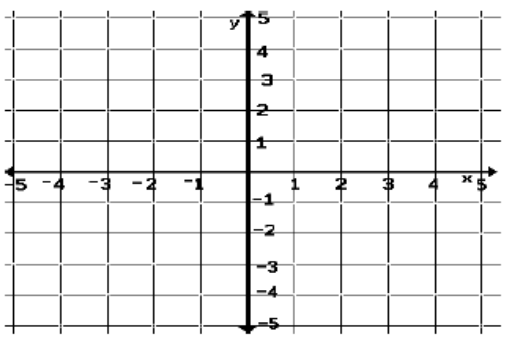

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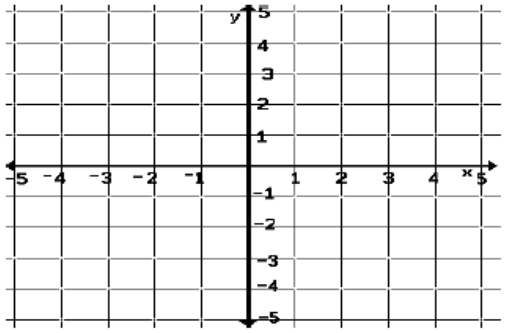

5.

6.

7.

8.

9.

Name _____ Hour _____

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	$(-2, 2)$
2	$(-4, -5)$
3	$No\ Solution$
4	$Infinite\ Solution$
5	$(8, 4)$
6	$(13, -3)$
7	$(6, -3)$
8	$(4, 1)$
9	$Infinite\ Solutions$
10	$(7, 6)$

Number	Answer
11	$No\ Solution$
12	$(0, -3)$
13	$(3, 7)$
14	$(-5, 9)$
15	$(2, 7)$
16	$(-4, -1)$
17	$180\ hamburgers$ & $120\ hotdogs$
18	$11\ adults$
19	$310\ yards$ & $1240\ yards$
20	$Soft\ Drink = \$0.95$ $Taco = \$1.15$

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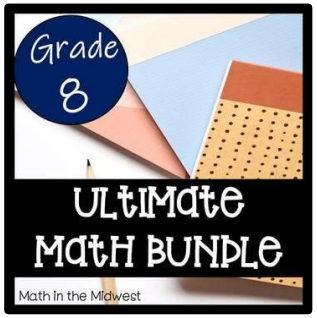
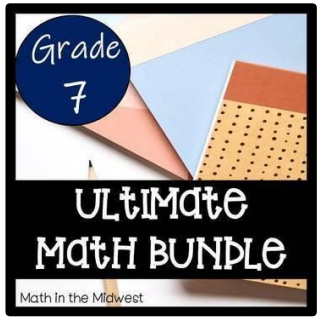
Ultimate Bundles:





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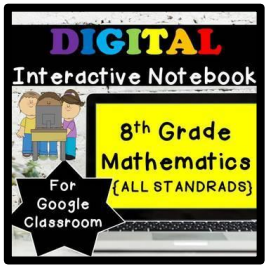
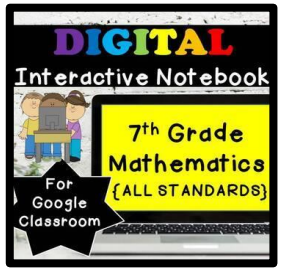
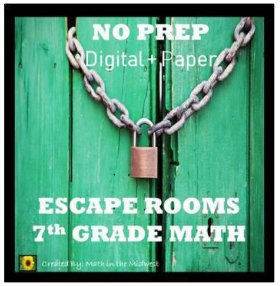
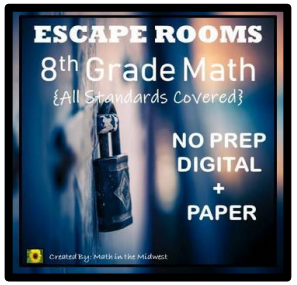
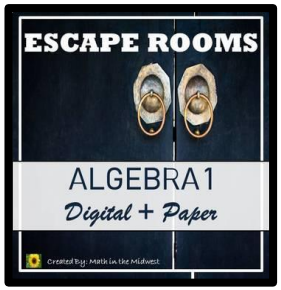




Escape Rooms:







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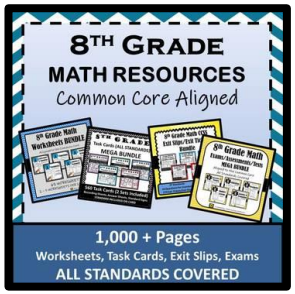

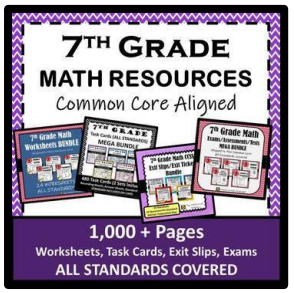

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