

Number System

Task Cards 7.EE.4

20 Task Cards, Recording Sheet, Answer Sheet

7.EE.4

Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

- 5** Write an algebraic equation for:
A number divided by 4 is 3.

7.EE.4

- 7** The perimeter of a square is 18 cm. Write an equation to find the length of one side of the square and solve for the length of one side.

7.EE.4

- 6** The perimeter of a rectangle is 38 in. Its length is 12 in cm. What is its width?

7.EE.4

- 8** As a salesperson you are paid \$300 per week plus \$8 per sale. This week you want your pay to be at least \$600. Write an inequality for the number of sales you need to make and describe what your solution means.

7.EE.4

- 17** Zach wants to buy a new movie for \$25. He already has \$11 saved and his mom will give him \$2 for each chore he does. What is the

- 18** The elevator at an old hotel has a weight limit of 1200 pounds. Assume the average person weighs 150 pounds and has 10 pounds of luggage. What is the greatest number of people that can ride the elevator at

- 20** It was also got a price price so the



Created by:
Math in the Midwest

7.EE.4

Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

1

Write an algebraic
expression for:

Six times a number

7.EE.4

2

Write an algebraic
expression for:

Twelve more than a
number

7.EE.4

3

Write an algebraic
expression for:

Seven added to five
times a number

7.EE.4

4

Write an algebraic
equation for:

A number multiplied
by 6 is 42.

7.EE.4

5

Write an algebraic equation for:

A number divided by 4 is 3.

7.EE.4

6

The perimeter of a rectangle is 38 in. Its length is 12 in cm. What is its width?

7.EE.4

7

The perimeter of a square is 18 cm. Write an equation to find the length of one side of the square and solve for the length of one side.

7.EE.4

8

As a salesperson you are paid \$300 per week plus \$8 per sale. This week you want your pay to be at least \$600. Write an inequality for the number of sales you need to make and describe what your solution means.

7.EE.4

9

James is practicing pitching with his team. He rotates pitching with his teammates after 12 pitches thrown. He has to throw at least 50 strikes before he can leave. How many rotations must Titus at least make if he throws 14 balls.

7.EE.4

10

Solve the following inequality:

$$2x + 9 \leq 19$$

7.EE.4

11

Solve the following inequality:

$$x - 7 \geq -5$$

7.EE.4

12

Solve the following inequality:

$$4x + 3 < -1$$

7.EE.4

13

I am thinking of a number. Divide the number by three and then add four. The answer is ten. What is my number?

7.EE.4

14

I am thinking of a number. I will add four and then multiply it by five. The answer is thirty five. What is my number?

7.EE.4

15

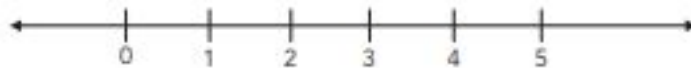
A gallon of milk is good for at least 17 days. If I have had the gallon of milk for 5 days, how many more days is the gallon of milk good for? Write your answer as an inequality.

7.EE.4

16

Graph the following inequality on the number line.

$$x \leq 4$$



7.EE.4

17

Zach wants to buy a new movie for \$25. He already has \$11 saved and his mom will give him \$2 for each chore he does. What is the least amount of chores Zach will have to do in order to save enough money to buy the movie?

7.EE.4**18**

The elevator at an old hotel has a weight limit of 1200 pounds. Assume the average person weighs 150 pounds and has 10 pounds of luggage. What is the greatest number of people that can ride the elevator at one time?

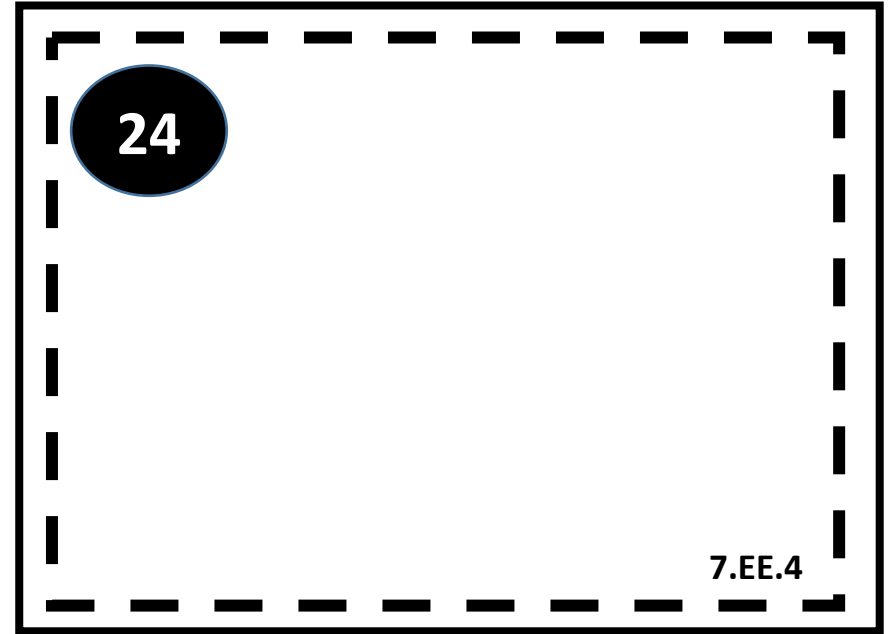
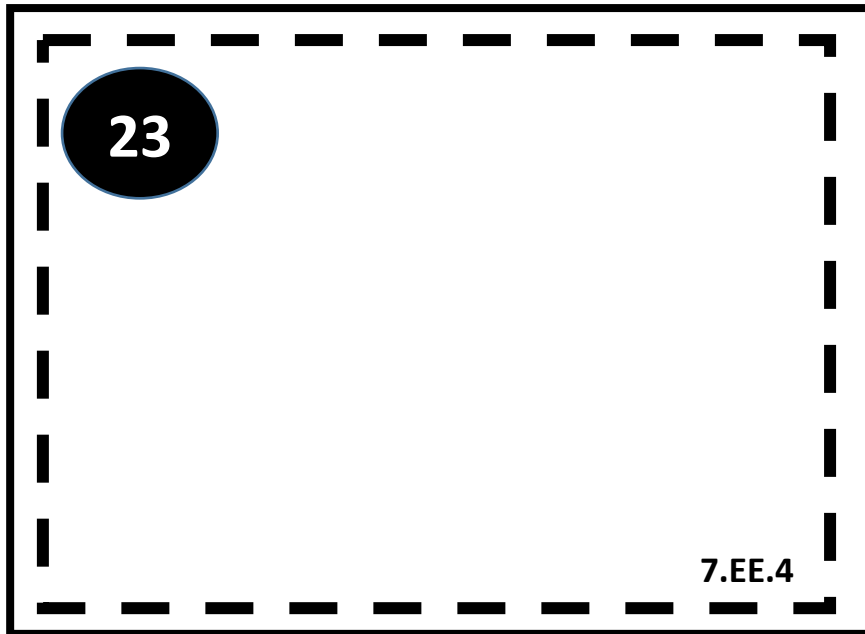
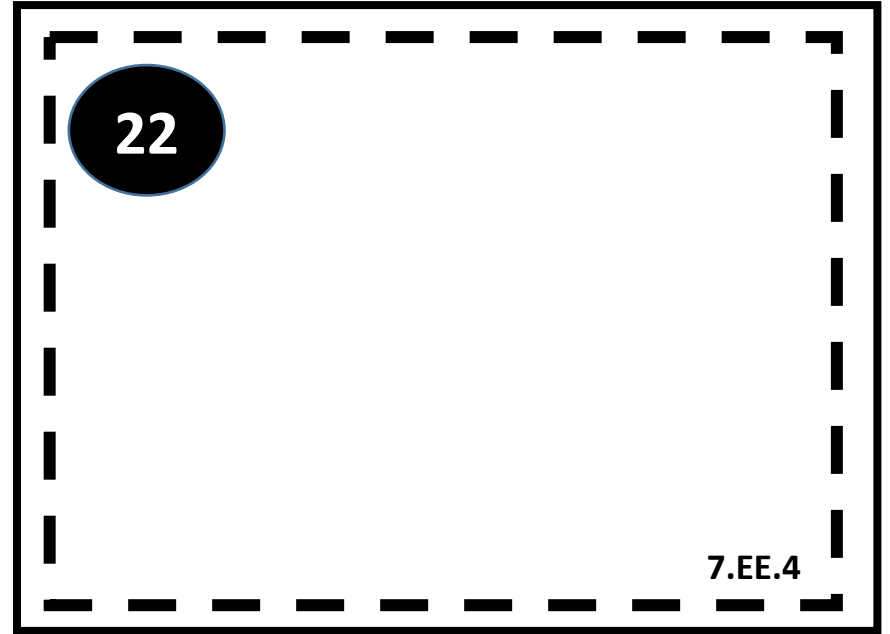
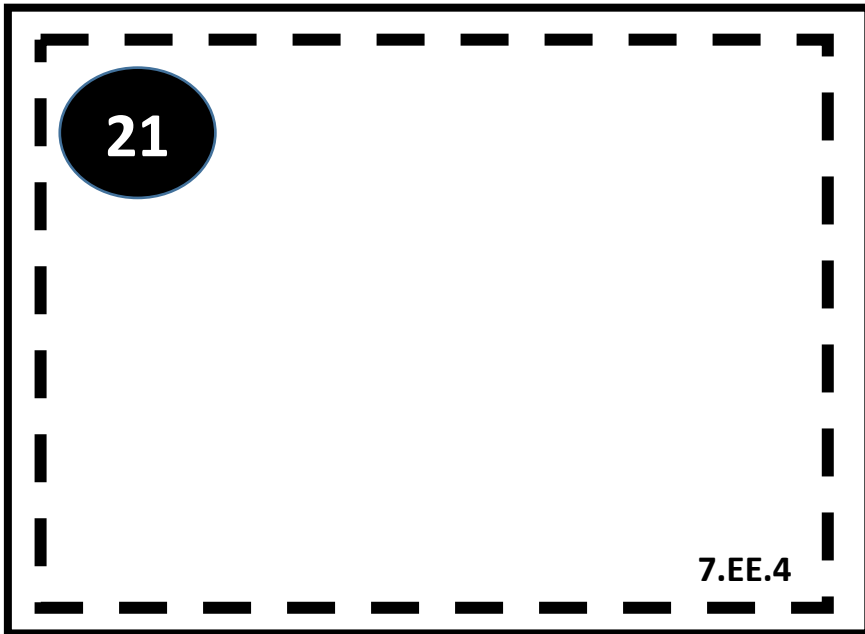
7.EE.4**19**

The Pizza Palace sells medium pizzas for \$7 each plus an 8% sales tax. If you only have \$35. How many pizzas could you buy?

7.EE.4**20**

Louis bought a laptop for \$720. It was marked \$90 off because it was an opened product. He also got a 15% discount, which was taken off the original price. What was the original price of the laptop? Write and solve an equation to answer the question.

7.EE.4



1

Write an algebraic expression for:

Six times a number

7.EE.4

2

Write an algebraic expression for:

Twelve more than a number

7.EE.4

3

Write an algebraic expression for:

Seven added to five times a number

7.EE.4

4

Write an algebraic equation for:

A number multiplied by 6 is 42.

7.EE.4

5

Write an algebraic equation for:

A number divided by 4 is 3.

7.EE.4

6

The perimeter of a rectangle is 38 in. Its length is 12 in cm. What is its width?

7.EE.4

7

The perimeter of a square is 18 cm. Write an equation to find the length of one side of the square and solve for the length of one side.

7.EE.4

8

As a salesperson you are paid \$300 per week plus \$8 per sale. This week you want your pay to be at least \$600. Write an inequality for the number of sales you need to make and describe what your solution means.

7.EE.4

9

James is practicing pitching with his team. He rotates pitching with his teammates after 12 pitches thrown. He has to throw at least 50 strikes before he can leave. How many rotations must Titus at least make if he throws 14 balls.

7.EE.4

10

Solve the following inequality:

$$2x + 9 \leq 19$$

7.EE.4

11

Solve the following inequality:

$$x - 7 \geq -5$$

7.EE.4

12

Solve the following inequality:

$$4x + 3 < -1$$

7.EE.4

13

I am thinking of a number. Divide the number by three and then add four. The answer is ten. What is my number?

7.EE.4

14

I am thinking of a number. I will add four and then multiply it by five. The answer is thirty five. What is my number?

7.EE.4

15

A gallon of milk is good for at least 17 days. If I have had the gallon of milk for 5 days, how many more days is the gallon of milk good for? Write your answer as an inequality.

7.EE.4

16

Graph the following inequality on the number line.

$$x \leq 4$$



7.EE.4

17

Zach wants to buy a new movie for \$25. He already has \$11 saved and his mom will give him \$2 for each chore he does. What is the least amount of chores Zach will have to do in order to save enough money to buy the movie?

7.EE.4**18**

The elevator at an old hotel has a weight limit of 1200 pounds. Assume the average person weighs 150 pounds and has 10 pounds of luggage. What is the greatest number of people that can ride the elevator at one time?

7.EE.4**19**

The Pizza Palace sells medium pizzas for \$7 each plus an 8% sales tax. If you only have \$35. How many pizzas could you buy?

7.EE.4**20**

Louis bought a laptop for \$720. It was marked \$90 off because it was an opened product. He also got a 15% discount, which was taken off the original price. What was the original price of the laptop? Write and solve an equation to answer the question.

7.EE.4

21

7.EE.4

22

7.EE.4

23

7.EE.4

24

7.EE.4

Name _____ Hour _____

7.EE.4 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

Name _____ Hour _____

10.

11.

12.

13.

14.

15.

16.

17.

18.

19.

20.

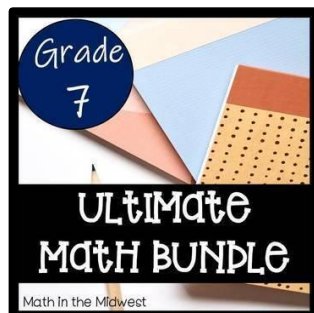
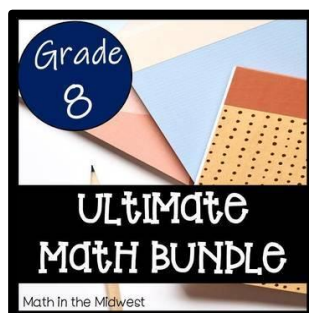
Answer Key

Number	Answer
1	$6x$
2	$x + 12$
3	$5x + 7$
4	$6x = 42$
5	
6	4 inches
7	$18 \div 4 = x$ $x = 4.5 \text{ cm}$
8	$8x + 300 \geq 600$ $x \geq 37.5$ At least 38 sales
9	$12x + 14 \geq 50$ $x \geq 3$
10	$x \leq 5$

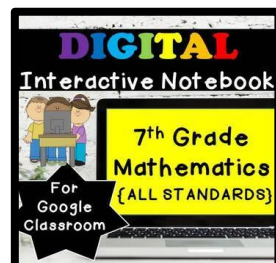
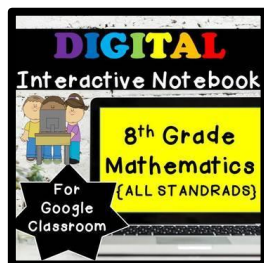
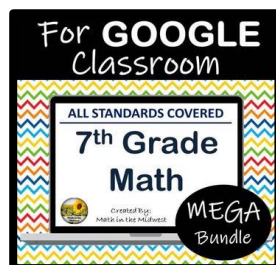
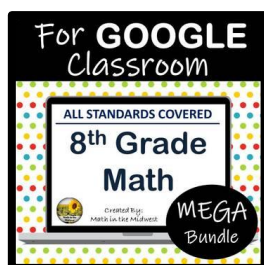
Number	Answer
11	$x \geq 2$
12	$x < -1$
13	18
14	3
15	$d \leq 12$ $d = \text{days}$
16	Check graph, closed circle at 4 and arrow pointing left
17	7 Chores
18	7 people
19	4 pizzas
20	\$952.94

Check out my other products!

Ultimate Bundles:

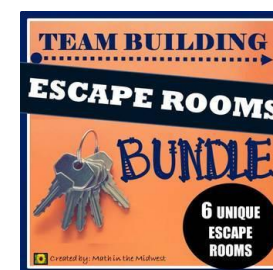
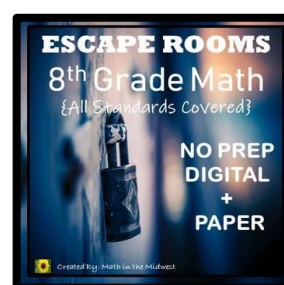
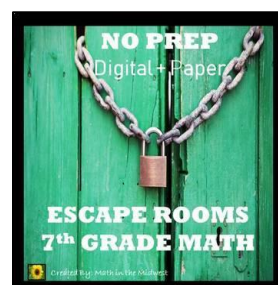


Digital Bundles:

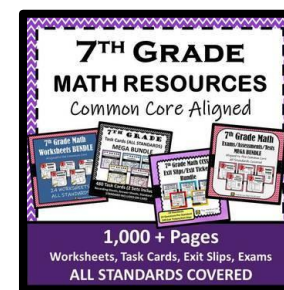
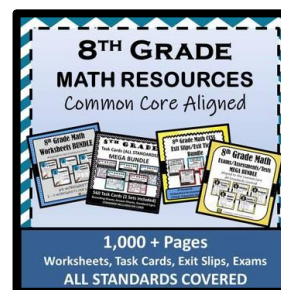


Visit my store & follow me!

Escape Rooms:



PDF Bundles:



© Math in the Midwest 2020

<https://www.teacherspayteachers.com/Store/Math-In-The-Midwest>

Terms of Use

Terms of Use Permission is granted to copy pages specifically for student or teacher use only by the original purchaser or licensee. The reproduction of this product for any other use is strictly prohibited. Copying any part of the product and placing it on the Internet is strictly prohibited. Doing so violates the Digital Millennium Copyright Act (DMCA).

© Math in the Midwest 2020

Be the first to know about my new discounts, freebies, and product launches. Click the link below to become a follower!

<https://www.teacherspayteachers.com/Sellers-Im-Following/Add/Math-In-The-Midwest>

Get TpT Credit on Future Purchases by:

- Leaving feedback on the products you purchase. TpT gives you feedback credits that you use to lower the cost of your future purchases. I truly love hearing what you think about my products so please consider leaving feedback! Thank you 😊

Credit & many thanks to:

