Expressions & Equations Exam

7th Grade Mathematics Expressions & Equations

7.EE.1

1) Evaluate the expression for the given value.

A. $\frac{x(2x+1)}{2}$ for $x = \frac{1}{2}$

B. $-7(3x + 2) + 3x$ for $x = 5$

7.EE.1

2) Simplify the following expression:

A. $5x + 3y - 2x + 9y - 15$

B. $5(m - 2) + 2(2x - 4)$

7.EE.2

3) Write and simplify an algebraic expression to represent the situation.

A new pair of shoes is 60% off. What expression represents the total cost?

7.EE.2

4) Jackson is starting a carwashing service and charges a 9% tip for each client. Write an algebraic expression that represents how much of a tip Jackson should collect given any amount of service.

7.EE.3

5) Complete the following table:

m	2m - 4
-2	
0	
2	
4	

7.EE.3

6) Emmy makes $11.50 an hour and gets a 2% raise. Answer the following questions:

How much is her raise: _____

How much money is Donna making an hour after her raise: _____

7th Grade Mathematics Expressions & Equations

7.EE.4

Solve each inequality:

A. $x + 12 \geq 18$

B. $4x \leq -36$

C. $2x + 4 \leq 17$

D. $x - 3 \geq 26$

...be standards you got correct
...the ones blank that you
...you got one correct and missed
...halfway in.

7.EE.2

7.EE.4

2 QUESTIONS PER STANDARD

By: Math in the Midwest

7th Grade Mathematics
Expressions & Equations

7.EE.1

1) Evaluate the expression for the given value.

A. $\frac{3(2x+1)}{2}$ *for* $x = \frac{1}{2}$

B. $-7(3x + 2) + 3x$ *for* $x = 5$

7.EE.1

2) Simplify the following expression:

A. $5x + 3y - 2x + 9y - 15$

B. $5(m - 2) + 2(2x - 4)$

7.EE.2

3) Write and simplify an algebraic expression to represent the situation.

A new pair of shoes is 60% off. What expression represents the total cost?

7.EE.2

4) Jackson is starting a car washing service and charges an 8% tip for each client. Write an algebraic expression that represents how much of a tip Jackson should collect given any amount of service.

7.EE.3

5) Complete the following table:

m	2m - 4
-2	
0	
2	
4	

7.EE.3

6) Emmy makes $11.50 an hour and gets a 3% raise. Answer the following questions:

How much is her raise: _____

How much money is Emmy making an hour after her raise: _____

7th Grade Mathematics
Expressions & Equations

7) Louis bought a laptop for $340. It was marked $50 off because it was an opened product. He also got a 5% 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.

Solve each inequality:

A. $x + 12 \geq 18$

B. $4x \leq -36$

C. $2x + 4 \leq 17$

D. $-3x - 3 \geq 26$

REFLECTION

A. What do you feel like you understand the most about expressions & equations?

_____

_____

_____

_____

B. What is one area you would like to understand better about expressions & equations?
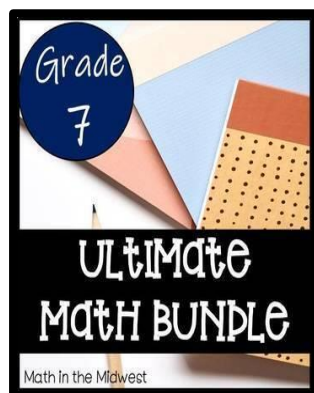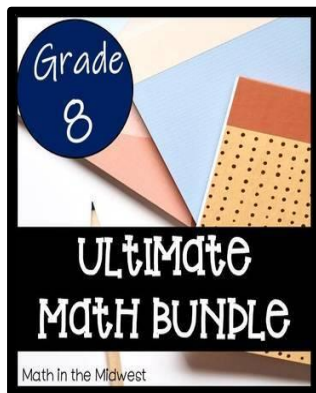
_____

_____

_____

_____

C. CIRCLE the effort (10: MAXIMUM EFFORT) you gave and put a BOX (10: YOU COULD TEACH THIS TO SOMEONE ELSE) around how you would rate your UNDERSTANDING of the content using the number line below.

1   2   3   4   5   6   7   8   9   10

Name: _____   Date: _____   Hour: _____

7th Grade Mathematics
Expressions & Equations

7.EE.1

1) Evaluate the expression for the given value.

A. $\frac{3(2x+1)}{2}$ for $x = \frac{1}{2}$

3

B. $-7(3x + 2) + 3x$ for $x = 5$

-104

7.EE.1

2) Simplify the following expression:

A. $5x + 3y - 2x + 9y - 15$

$3x + 12y - 15$

B. $5(m - 2) + 2(2x - 4)$

$5m - 10 + 4x - 8$
$5m + 4x - 18$

7.EE.2

3) Write and simplify an algebraic expression to represent the situation.

A new pair of shoes is 60% off. What expression represents the total cost?

$Total\ Cost = 0.4s$
$s = originial\ cost\ of\ shoes$

7.EE.2

4) Jackson is starting a car washing service and charges an 8% tip for each client. Write an algebraic expression that represents how much of a tip Jackson should collect given any amount of service.

$c = originial\ cost\ of\ service$
$Total\ Cost = 1.08c$

7.EE.3

5) Complete the following table:

m	2m - 4
-2	**-8**
0	**-4**
2	**0**
4	**4**

7.EE.3

6) Emmy makes $11.50 an hour and gets a 3% raise. Answer the following questions:

How much is her raise: _____**$0.35**_____

How much money is Emmy making an hour after her raise: _____**$11.85**_____

7th Grade Mathematics
Expressions & Equations

7.EE.4

7.EE.4

7) Louis bought a laptop for $340. It was marked $50 off because it was an opened product. He also got a 5% 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.

$$340 = p - 50 - 0.05p$$
$$p = orginial\ price\ of\ laptop$$
$$\$410.52$$

Solve each inequality:

A. $x + 12 \geq 18$

$$x \geq 6$$

B. $4x \leq -36$

$$x \leq -9$$

C. $2x + 4 \leq 17$

$$x \leq 6.5$$

D. $-3x - 3 \geq 26$

$$x \leq -\frac{29}{3}$$

REFLECTION

A. What do you feel like you understand the most about expressions & equations?

_____
_____
_____
_____

B. What is one area you would like to understand better about expressions & equations?

_____
_____
_____
_____

C. CIRCLE the effort (10: MAXIMUM EFFORT) you gave and put a BOX (10: YOU COULD TEACH THIS TO SOMEONE ELSE) around how you would rate your UNDERSTANDING of the content using the number line below.
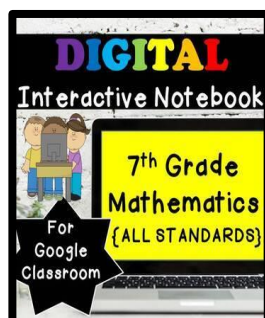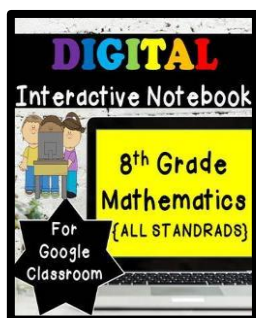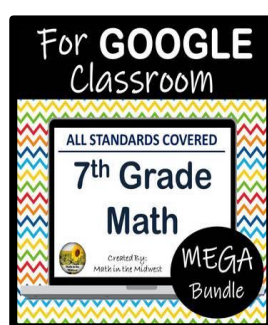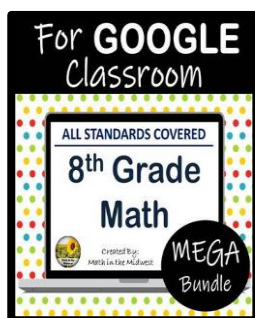
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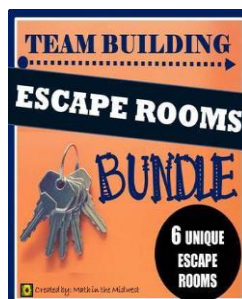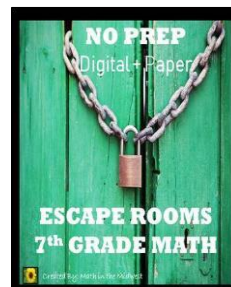## All you have to do is click on the images below.

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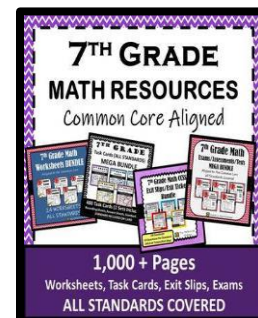

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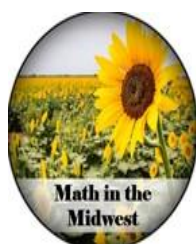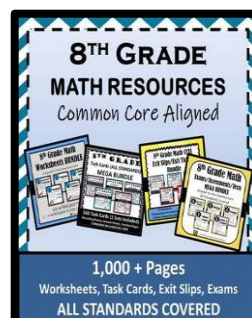
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