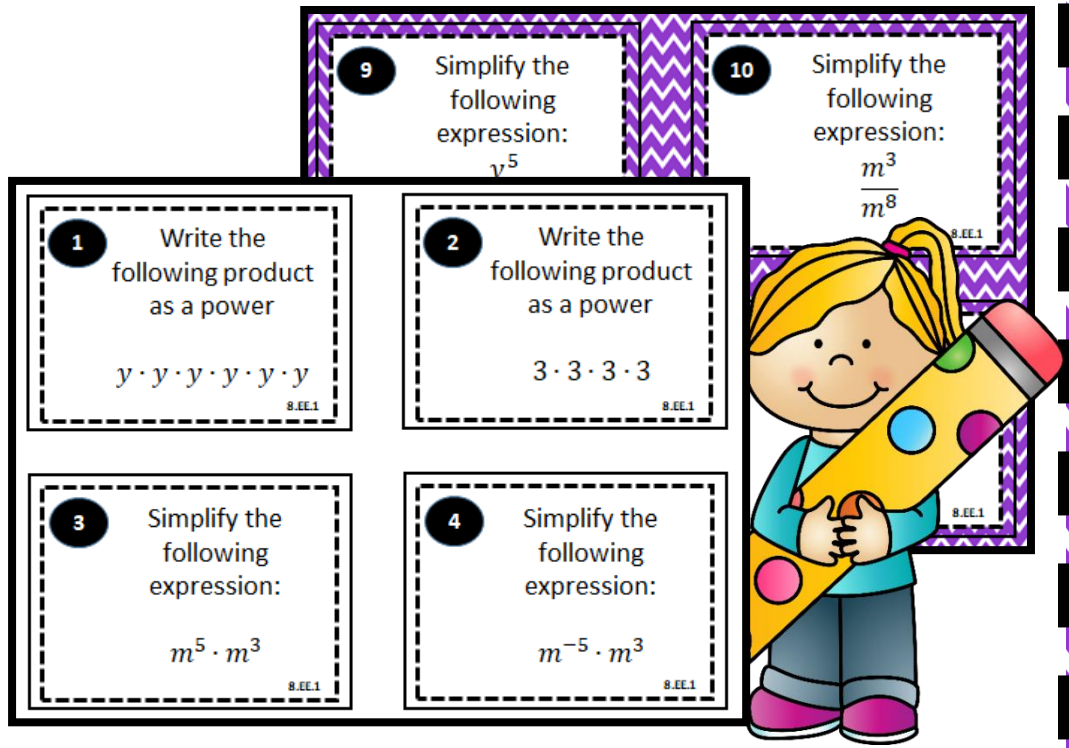
Expressions & Equations Task Cards 8.EE.1

20 Task Cards, Recording Sheet, Answer Sheet

8.EE.1

Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.



Created by:
Math in the Midwest

8.EE.1

Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.

1

Write the following product as a power

$y \cdot y \cdot y \cdot y \cdot y \cdot y$

8.EE.1

2

Write the following product as a power

$3 \cdot 3 \cdot 3 \cdot 3$

8.EE.1

3

Simplify the following expression:

$m^5 \cdot m^3$

8.EE.1

4

Simplify the following expression:

$m^{-5} \cdot m^3$

8.EE.1

5

Simplify the following expression:

$b^{-6} \cdot b^{-2}$

8.EE.1

6

Simplify the following expression:

$x^{12} \cdot x^{-4}$

8.EE.1

7

Simplify the following expression:

$2^{-2} \cdot 2^{1}$

8.EE.1

8

Simplify the following expression:

$4^{-5} \cdot 4^{3}$

8.EE.1

9

Simplify the following expression:

$$\frac{y^5}{y^2}$$

8.EE.1

10

Simplify the following expression:

$$\frac{m^3}{m^8}$$

8.EE.1

11

Simplify the following expression:

$$(y^4y^2)^3$$

8.EE.1

12

Simplify the following expression:

$$(3y^{-4}y^2)^2$$

8.EE.1

13

Rewrite the power so the exponent is positive

8^{-5}

8.EE.1

14

Rewrite the power so the exponent is positive

k^{-2}

8.EE.1

15

Simplify the following expression

$$\frac{x^4y^6x^{-2}}{y^3y^2x^8}$$

8.EE.1

16

Simplify the following expression

$$\frac{m^2j^3j^5}{m^8j^{-2}m^3}$$

8.EE.1

17

Simplify the following expression:

$$(2y^3)^2$$

8.EE.1

18

Simplify the following expression:

$$3h^2 \cdot 2h^2$$

8.EE.1

19

The _____ of a power is the repeated factor in a power.

8.EE.1

20

The _____ of a power is the number of times that the factor is repeatedly multiplied.

8.EE.1

21

8.EE.1

22

8.EE.1

23

8.EE.1

24

8.EE.1

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8.EE.1

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8.EE.1

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8.EE.1

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8.EE.1

22

8.EE.1

23

8.EE.1

24

8.EE.1

Name _____ Hour _____

8.EE.1 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	y^6
2	3^4
3	m^8
4	$\frac{1}{m^2}$
5	$\frac{1}{b^8}$
6	x^8
7	$\frac{1}{2}$
8	$\frac{1}{16}$
9	y^3
10	$\frac{1}{m^5}$

Number	Answer
11	y^{18}
12	$\frac{9}{y^4}$
13	$\frac{1}{8^5}$
14	$\frac{1}{k^2}$
15	$\frac{y}{x^6}$
16	$\frac{j^{10}}{m^9}$
17	$4y^6$
18	$6h^4$
19	Base
20	exponent

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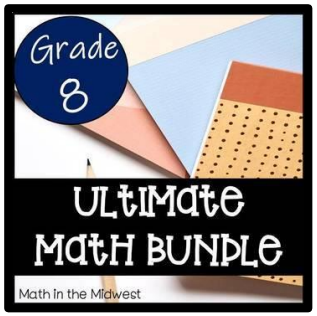

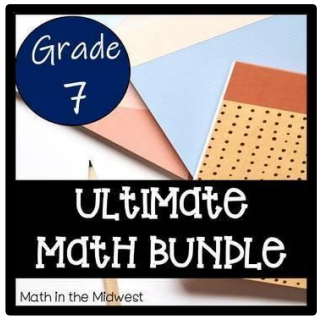

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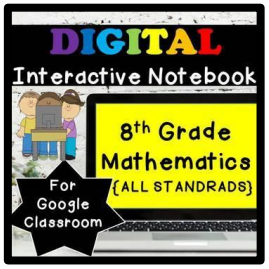

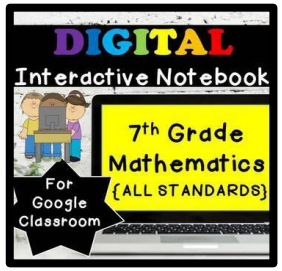

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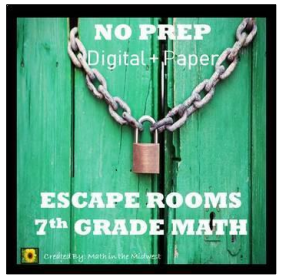

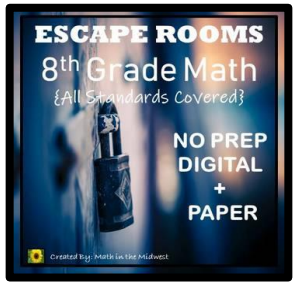

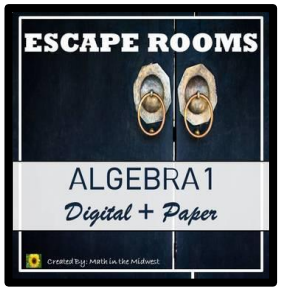

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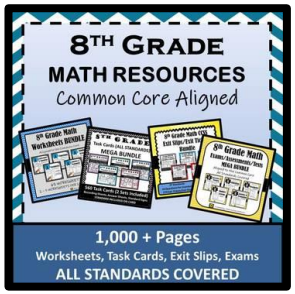

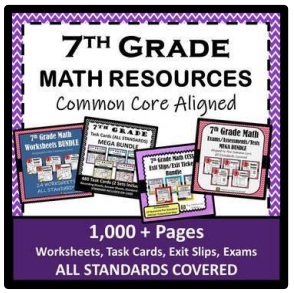

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