

# Number System

## Task Cards 7.EE.2

20 Task Cards, Recording Sheet, Answer Sheet

7.EE.2

Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

5 A car was on sale for \$18,900. You want to offer 5% less than the asking price. Write an expression that would represent your offer using (p) as the asking price of the car. 7.EE.2

7 Write an expression to represent the price of a TV (t) and 8.4% sales tax. 7.EE.2

6 Gas prices dropped 37% over night. Write an expression that represents the new price of gas using (g) as the old price. 7.EE.2

8 Write an algebraic expression that represents the total cost (c) of a video game (g) that is advertised as 75% off. 7.EE.2

9 You have a \$5 off coupon you can use at the Pizza Shop as well as a 20% coupon you can use after the \$5. Write an expression that would represent how much you pay before tax.

10 Janice has a 25% off coupon to the candle store. After the 25% off she can use a \$10 off coupon because she spent enough money. Write an expression that would represent how much Janice would pay before tax using (c) as the original cost of the candle. 7.EE.2

12



Created by:  
Math in the Midwest

# 7.EE.2

Understand that rewriting an expression in different forms in a problem context can shed light on the problem and how the quantities in it are related.

1

The seventh grade class had 15% fewer students this year than they did as sixth graders. Write an expression to show the decline in students and use (s) to represent the number of sixth grade

students

7.EE.2

2

The grocery store was clearing out inventory and offering 25% off all items. Write an expression to show the price of all the items after the discount using (p) as the original price.

7.EE.2

3

Students enrolled in honors math increased by 18% this year. Write an expression to show the increase and use (s) for students.

7.EE.2

4

Drew was earning \$14 an hour. He got a 7% raise and now earns \$14.98. Write an expression to show how his new hourly rate was calculated.

7.EE.2

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7.EE.2

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11

Kelly is making cookies. The ingredients calls for 3 cups of brown sugar she makes 2.5 batches of cookies. Write an expression that represents how many cups (c) of brown sugar Kelly used.

7.EE.2

12

Laura went out for dinner with her friends. Write an expression that represents the total bill she will pay if she wants to leave a 17% tip.

7.EE.2

**13**

Write an expression that represents 35% off a cell phone ( $p$ ).

7.EE.2

**14**

Write an expression that represents 50% off a back to school sale.

7.EE.2

**15**

Write an expression that shows the total bill given to a pizza delivery man if he is also given a tip of 11%. Using ( $p$ ) for the cost of the pizza.

7.EE.2

**16**

Correct the following simplification mistake

$$g - \frac{1}{4}g = \frac{1}{2}g$$

7.EE.2

**17**

Correct the following  
simplification  
mistake

$$y + 0.08y = 1.8y$$

7.EE.2

**18**

Correct the following  
simplification  
mistake

$$w - \frac{7}{8}w = \frac{7}{8}w$$

7.EE.2

**19**

Complete the following  
statements to generate  
an equivalent expression:

$$6x + 18 = \underline{\hspace{1cm}}(2x + \underline{\hspace{1cm}})$$

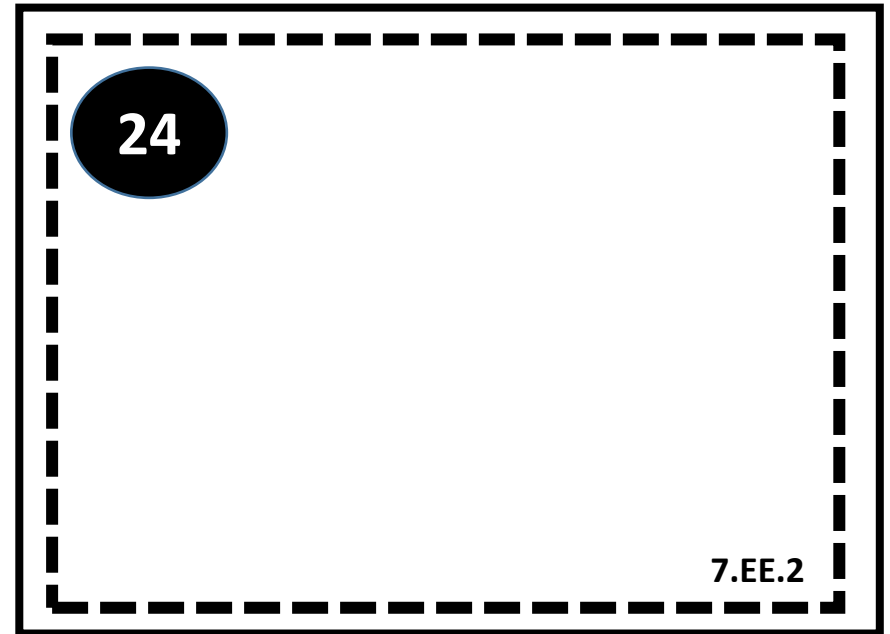
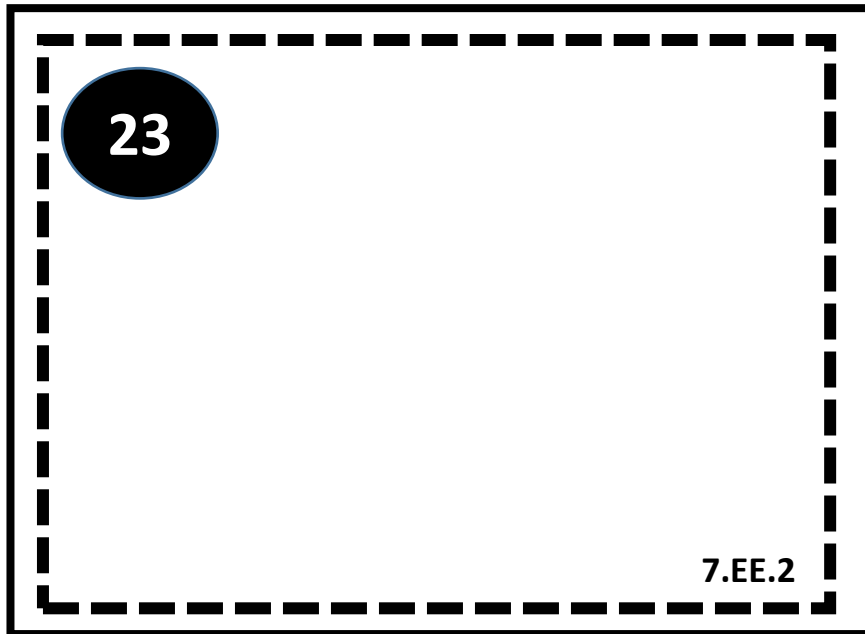
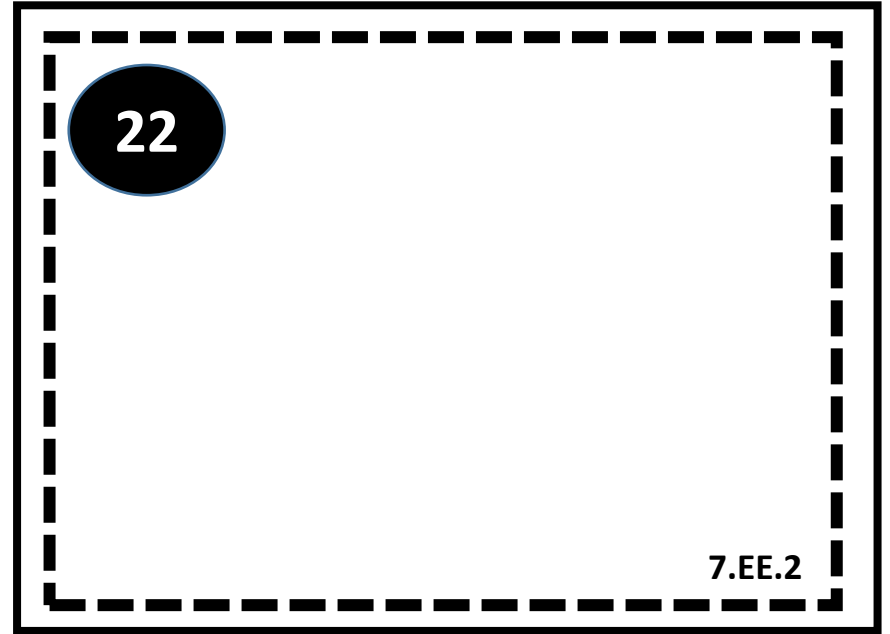
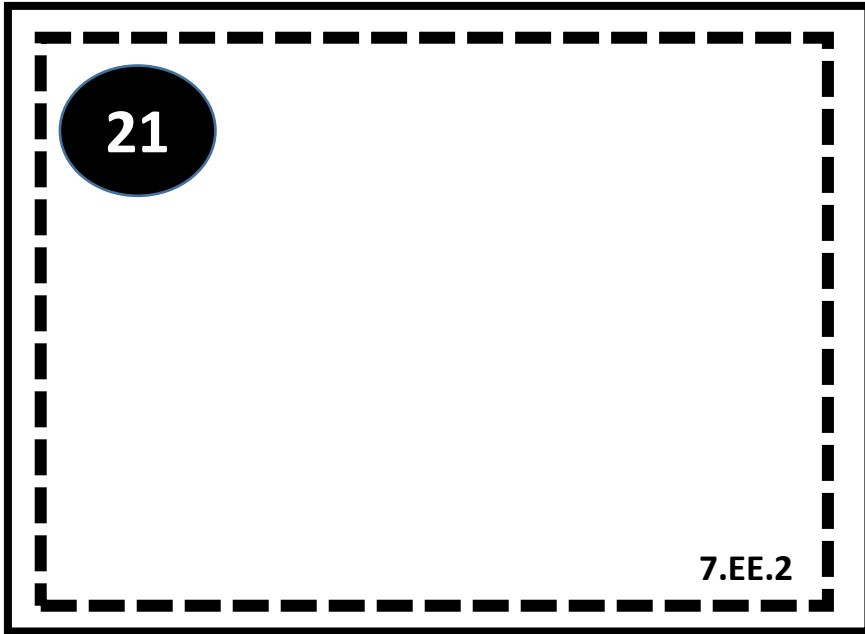
7.EE.2

**20**

Complete the following  
statements to generate an  
equivalent expression:

$$12x + 36 = 6(\underline{\hspace{1cm}}x + \underline{\hspace{1cm}})$$

7.EE.2





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7.EE.2

21

7.EE.2

22

7.EE.2

23

7.EE.2

24

7.EE.2

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.EE.2 Recording Sheet

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

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

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20.

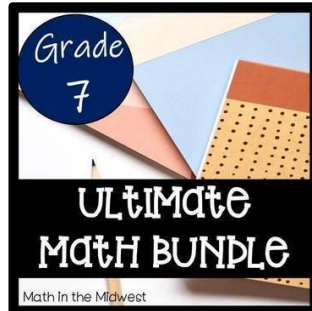
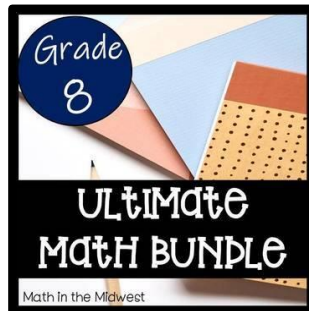


# Answer Key

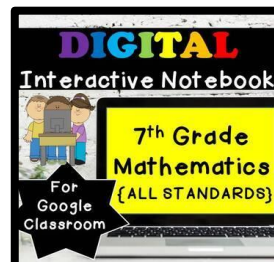
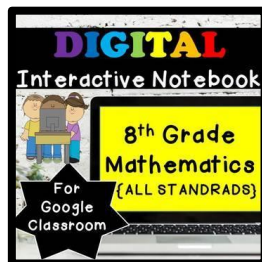
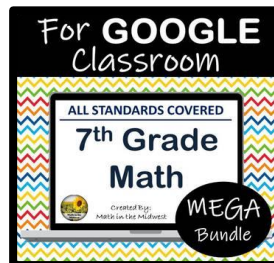
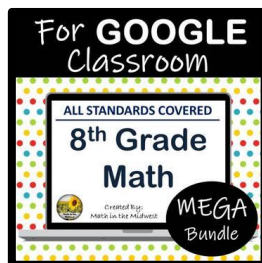
Number	Answer
1	$s - .15s$ or $.85s$
2	$p - .25p$ or $.75p$
3	$1.18s$
4	$14 \times 1.07$
5	$p - .05p$
6	$g - .37g$
7	$t + .084t = 1.084t$
8	$c = .25g$
9	$.8(p - 5)$
10	$.75p - 10$
11	$3c \times 2.5$
12	$1.17b$
13	$.65p$
14	$0.5x$
15	$1.11p$
16	$\frac{3}{4}g$
17	$1.08y$
18	$\frac{1}{8}w$
19	$3(2x + 6)$
20	$6(2x + 6)$

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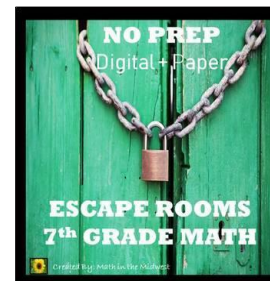


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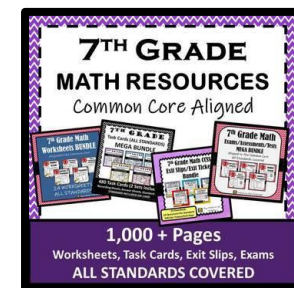
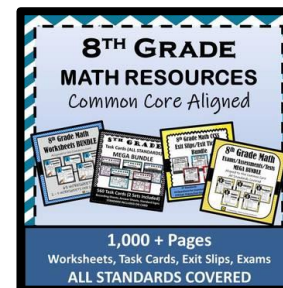


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