

# Ratios & Proportional Relationships

## Task Cards 7.RP.3

20 Task Cards, Recording Sheet, Answer Sheet

13 Katie and her friends go to dinner and have a total bill of \$48.92. They want to leave the waiter a 14% tip. How much money should they leave for a tip?

14 If a real estate agent earns a 4% commission and earned \$7,560 on the closing of a home. How much did the house cost?

15 In May, Ali was charged \$20 for individual basketball lessons and in August started charging \$25. What percent did she increase her price by?

1 A furniture store is getting ready for a big sale and marking all their prices down by 45%. If one of their items is regularly priced at \$375, what is the sale price?

7.RP.3

2 Jamie goes shopping for Christmas and saves \$27.75 with a 15% off coupon. What was her total bill?

7.RP.3

3 James bill at a restaurant is \$39.50. If he wants to tip his server 18% how much money should he leave?

7.RP.3

4 The number of dogs rose in Western town by 60% this year. If there were 85 dogs last year. How many dogs are there now?

7.RP.3



Created by:  
Math in the Midwest

# 7.RP.3

Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

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7.RP.3

5

Luther takes 45 bottles of water on a camping trip. If he drinks 80% of them. How many does he have left?

7.RP.3

6

Mr. Logan agrees to give you a loan of \$25,000 to start your business, but will charge you 7% interest. How much will you have to pay him back?

7.RP.3

7

Devin bought a new car for \$19,024 and it was 20% off. Determine the original price of the car.

7.RP.3

8

Kelly's Deli is having a sale on all their homemade bread. It is normally priced at \$5.75, but it is marked down to \$3.45. What percent off are they?

7.RP.3

**9**

Mrs. Lincoln's newborn baby boy is growing quickly! His weight is increasing by 6% every week. If he weighs 8 pounds this week what will he weigh next week, and what will he weigh in 2 weeks?

7.RP.3

**10**

If a salesperson makes a 35% commission and makes a sale for \$425 determine the commission the salesperson will make.

7.RP.3

**11**

Missy wants to buy a new iPhone for \$385. If she will be charged 7.5% sales tax, how much sales tax will she pay?

7.RP.3

**12**

Summer needs to buy a new bike that will cost her \$140. If she will be charged 6.4% sales tax, how much sales tax will she pay?

7.RP.3

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7.RP.3

**16**

Kaitlin budgeted 35% of her savings for a new phone. If she had \$800 in her savings, how much can she use towards her new phone?

7.RP.3

**17**

Drew found a pair of sunglasses for \$38 and sales tax is 7.5%. What is the total bill he will pay for the sunglasses?

7.RP.3

**18**

Talli was earning \$15 an hour babysitting, but decided to lower her price to \$12 an hour. What percent did she decrease her price?

7.RP.3

**19**

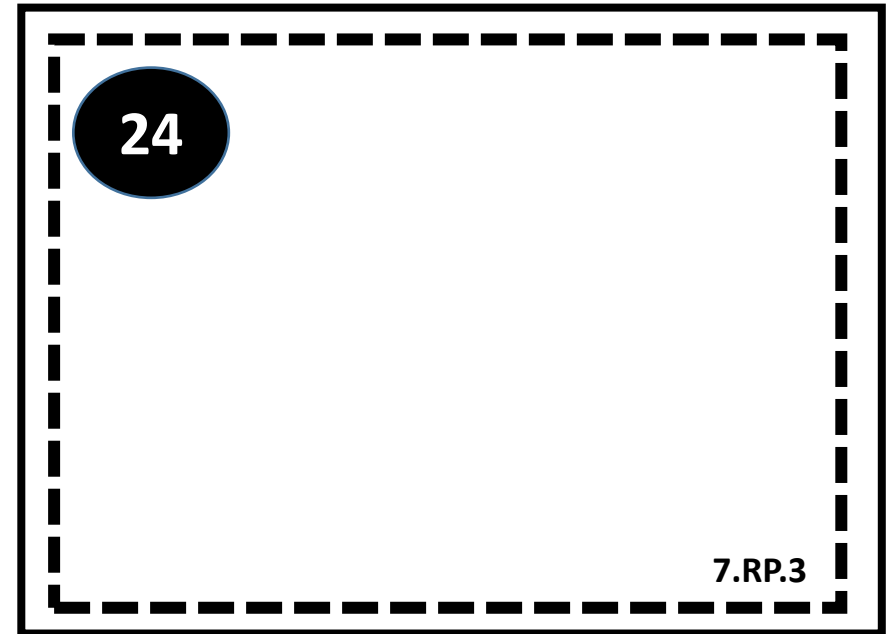
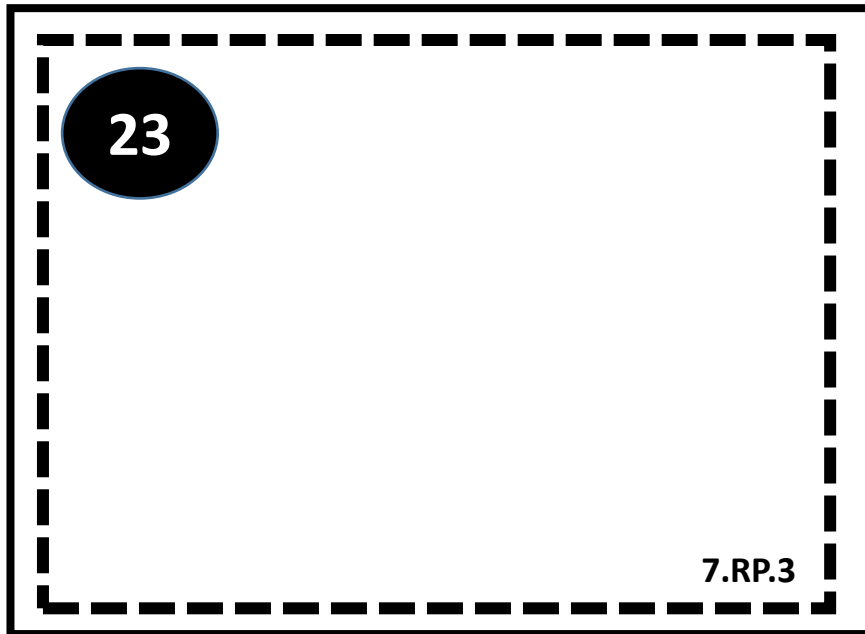
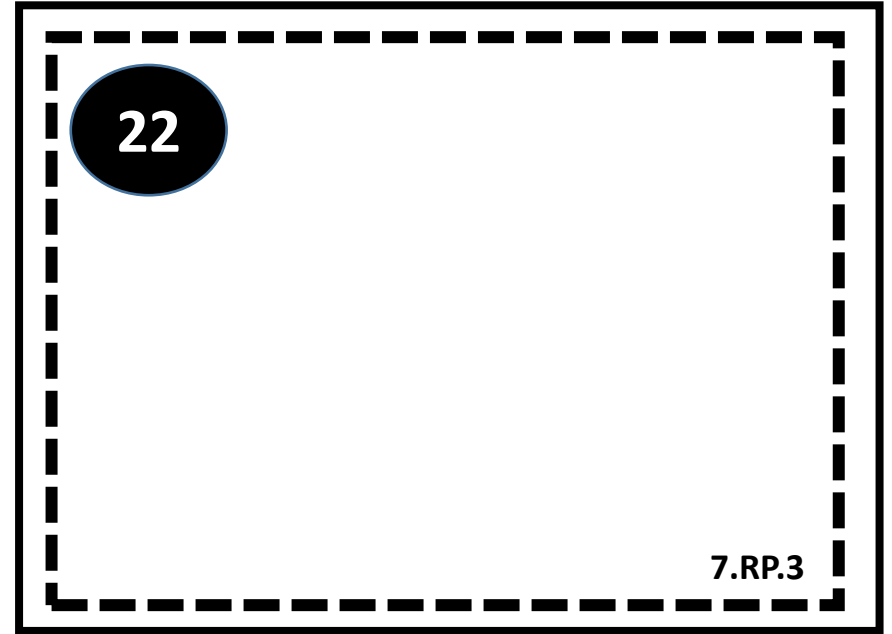
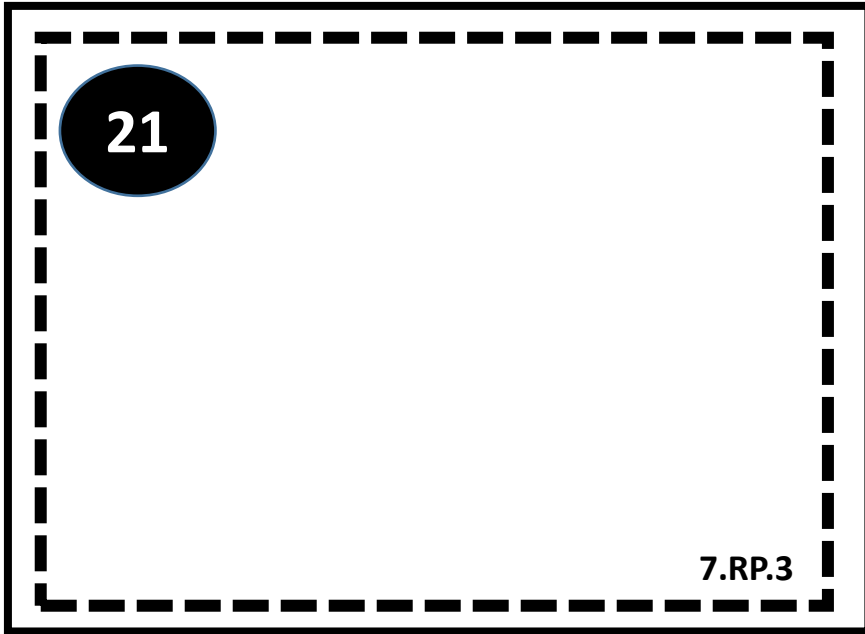
A baseball ticket normally cost \$12, but they are having a promotional game night and all tickets are 33% off. What is the new price of the ticket?

7.RP.3

**20**

Nathan orders a steak at dinner for \$17. He has to pay 8% sales tax and then wants to leave a 17% tip. How much total money will Nathan spend?

7.RP.3





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7.RP.3

22

7.RP.3

23

7.RP.3

24

7.RP.3

Name \_\_\_\_\_

Hour \_\_\_\_\_

# 7.RP.3 Recording Sheet

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

Name \_\_\_\_\_

Hour \_\_\_\_\_

10.

11.

12.

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18.

19.

20.

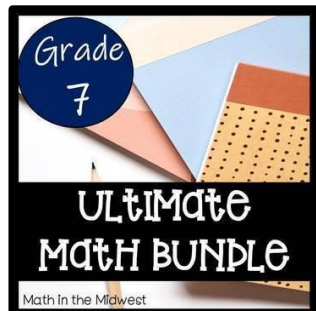
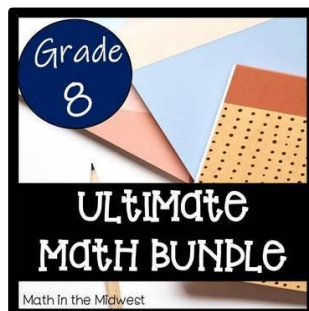


# Answer Key

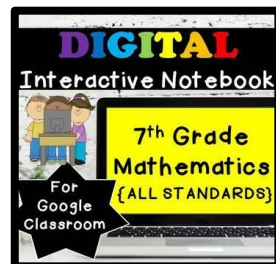
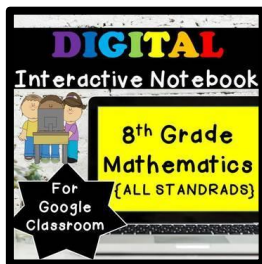
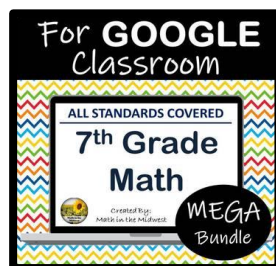
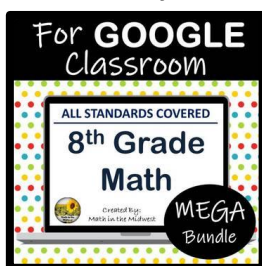
Number	Answer
1	\$206.25
2	\$185
3	\$7.11
4	136 dogs
5	9 bottles
6	\$26,750
7	\$23,780
8	40%
9	8.48 pounds, 8.99 pounds
10	\$148.75
11	\$28.88
12	\$8.96
13	\$6.85
14	\$189,000
15	25%
16	\$280
17	\$40.85
18	20%
19	\$8.04
20	\$21.48

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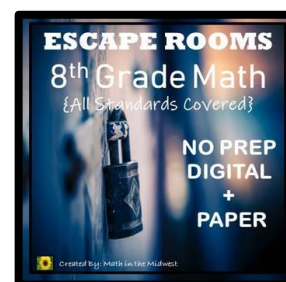
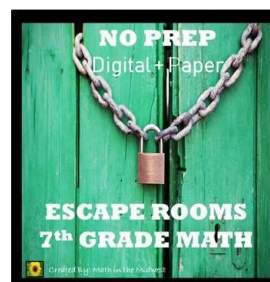
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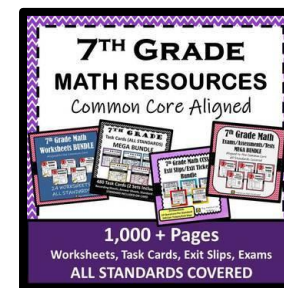
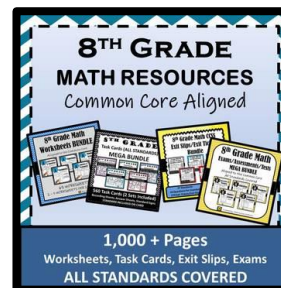
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