1. Of the 75 teachers at a school, 15 teach math. What percent of the teachers at the school teach mathematics?
   a. 2%
   b. 5%
   c. 15%
   d. 20%

2. Mrs. Taylor bought a water tube to pull behind her boat. The tube cost $87.00, and 9% sales tax was added at the register. Mrs. Taylor gave the cashier five $20 bills.   How much change should she have received?
   a. $4.83
   b. $94.83
   c. $5.17
   d. $117.00

3. AJ purchased a new TV for $1200. The regular price of the TV was $1500. What percent did AJ save by buying it on sale?
   a. 20%
   b. 25%
   c. 30%
   d. 35%

4. Morgan bought a book for $13.73, which includes 6% tax. What was the original price of the book?

   a. $14.61
   b. $13.50
   c. $8.55
   d. $12.95

5. Ms. Ward wants to buy a suit marked $60. She receives a 25% discount, and then there is 7% sales tax. How much does Ms. Ward spend on the suit?

   a. $45
   b. $15
   c. $48.15
   d. $69.75

6. Carmen earns 5% interest on an investment of $500 each year. How much money will she earn after 6 years?

   a. $25
   b. $125
   c. $150
   d. $175

7. Jefferson purchased a jacket priced at $129 on sale for $90.30. What was the percentage of the discount?

  a. 70%
  b. 50%
  c. 30%
  d. 39%

8. Bob makes 4% commission on his sales as a real estate agent. If Bob sells a house for $249,000, how much money does he get to keep?
  a. $99,600
  b. $258,960
  c. $9,960
  d. $239.040

9. The ratio of strawberries to raspberries in a fruit smoothie drink is 4 to 12. What percent of the drink is strawberries?

  a) 33%
  b) 25%
  c) 66%
  d) 75%

10. This year, the school basketball team spent $400 on uniforms. Next year they will spend $600. What is the percent of increase?

  a) 50%
  b) 60%
  c) 200%
  d) 24%

11. Tate is saving his money to buy a go-cart. The go-cart he wants costs $240. His mother agreed to chip in $60. What percent of the total cost of the go-cart is his mother contributing?

  a) 20%
  b) 25%
  c) 40%
  d) 75%

12. 73.7 is 55% of what number?
     a. 134
     b. 40.5
     c. 74.6
     d. 0.134

13. What is the better deal?
     - Deal #1 is a 20% discount followed by a second discount of 15%.
     - Deal #2 is one 35% discount.
     Show your work and explain how you determined your answer.

14. The surround sound system you want to buy is $799. Next week it will be on sale for 38% off.

     Part A
     Is this advertisement correct? Explain.

     REG. $799.00
     38% OFF
     SAVE $301
     $498.00

     Part B
     How much will you end up spending if you buy the system for 38% off and pay 7% sales tax?

15. Your bill at a restaurant is $62. How much money do you spend if you pay 7.5% tax and leave an 18% tip on the total with the tax included?

16. If sales tax is 7.5%, how much tax will you pay for a $73 purchase?

1. d

2. c

3. a

4. d

5. c

6. c

7. c

8. c

9. b

10. a

11. b

12. a

13. Deal 1 is 80% * 85% for a total discount of 32%. Therefore deal 2 is better at 35%.

14. a. No, the discount should be $303.62 and the price should be $495.38.

    b. The total price would be $495.38 * 1.07 = $530.06.

15. 62 * 1.075 = 66.65   66.65 * 1.18 = 78.647   Therefore, you would pay $78.65.

16. 73 * 1.075 = 78.475   Therefore, you would pay $78.48.

Assessment Matrix- 7ᵗʰ Grade Percents

Name _____ Homeroom_____

Multiple Choice	Short Answer 1
1-12	13-16

Standard Number	Standard	Item #								Mastery
7.RP.A.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.	1	2	3	4	5	6	7	8	
		9	10	11	12	13	14	15	16	