Name _____ Class_____

Date_____ 7th Grade Math

7th Grade Summer Assignment

Directions: Multiple Choice: Complete all of the questions and circle the correct answer choice. Be sure to show all of your work to receive credit!

1. At sunset, a thermometer had a reading of 4°F. During the night, the temperature decreased 15°F. After the decrease, what is the total number of degrees that the temperature must change for the thermometer to read 0°F?

   Standard: NY- 7.NS.1

A. 4°F

B. 11°F

C. 15°F

D. 19°F

2. Maria and her friends are at a movie theater. They have $52.00 and spend $34.50 of it on movie tickets. They also buy 3 drinks that cost the same amount. After buying the movie ticket and drinks, they have $4.00 remaining. How much did each drink cost?

   Standard: NY - 7.NS.3

   A. $2.50

   B. $3.83

   C. $4.00

   D. $4.50

3. A student has a bus pass with a balance of $30.00. Each time the student rides the bus, the balance on the bus pass decreases by $2.25. What is the greatest number of bus rides the student can take using the bus pass?

Standard: NY - 7.NS.3

A. 10

B. 13

C. 14

D. 15

4. Frank is riding in a taxi to get to work. The cost of riding in a taxi includes a one-time fee of $2.75, and $2.60 per mile. If Frank rides in a taxi for 4 miles and pays a $2.00 tip, how much money will he have left over if he pays with a $20.00 bill?

Standard: NY - 7.NS.3

A. $4.85

B. $6.85

C. $7.35

D. $7.60

5. Megan reads the same number of pages in a book each day. The table below represents the total number of pages read at the end of the given number of days.

NUMBER OF PAGES READ

Number of Days	Total Number of Pages
2	32
4	64
5	80
7	112

How many pages does Megan read in 1 day?

Standard - NY - 7.RP.1

A. 16

B. 18

C. 28

D. 32

5. The ratio of boys to girls in Mr. Johnson's after-school club is the same as the ratio of boys to girls in Ms. Greene's after-school club. There are 4 boys and 12 girls in Mr. Johnson's club. There are 6 boys in Ms. Greene's club. How many girls are in Ms. Greene's club?

NY - 7.RP. 1

A. 2

B. 12

C. 14

D. 18

6. Mr. Santino needs a total of 406 forks for his restaurant. He currently has 278 forks. If each set has 12 forks, what is the minimum number of sets of forks he should buy?

Standard: NY- 7.NS.3

A. 11

B. 12

C. 128

D. 140

7. The drawing of a building has a scale of 1 inch to 30 feet. The height of the building is 1.25 inches. The width of the building is 0.75 inches. What is the actual height, in feet, of the building?

Standard: NY - 7.G.1

A. 22.5

B. 24

C. 37.5

D. 40

8. Joseph's lunch at a restaurant costs $13.00, without tax. He leaves the waiter a tip of 17% of the cost of the lunch, without tax. What is the total cost of the lunch, including the tip, without tax?

Standard: NY - 7.RP.3

A. $2.21

B. $10.79

C. $13.17

D. $15.21

9. Which situation results in a final value of zero?

Standard: NY- 7.NS.1

A. The overall change in temperature when the temperature goes from -10°F to 10°F

B. The total profit made when a person buys an item for $2.25 and then sells the item for $2.25

C. The overall change in altitude of a hot air balloon after rising 21 kilometers from sea level

D. The total distance a distance a person travels when he bikes 3.1 miles to school and then bikes 3.1 miles back home

10. Three classes at a junior high school raised money to buy new computers.

- Ms. Moore's class raised $249.00.
- Ms. Agilar's class raised $396.62 more than Ms. Moore's class.
- Mr. Barry's class raised $430.43 less than Ms. Aguilar's class.

What is the total amount of money raised by all three classes?

Standard: NY - 7.NS.3

A. $215.19

B. $464.19

C. $1,076.05

D. $1,109.81

11. From 12:00 midnight to 6:00 a.m., the temperature decreased by 12 °C. If the original temperature was 12°C, which expression can be used to represent this situation?

Standard: NY - 7.NS.2

A. 12 - 12

B. 12 + 12

C. 12 - (-12)

D. -12 + (-12)

12. Maggie owns a dog grooming business. The prices for two services are listed below.

- $31.50 for a dog wash
- $17.00 for a nail trim

A customer receives an 18% discount when paying for both a dog wash and a nail trim. What is the total price the customer will pay for a dog wash and a nail trim with the discount?

Standard: NY - 7.NS.3 and NY - 7.RP.3

A. $18.00

B. $39.77

C. $42.83

D. $48.50

13. Which situation results in a final value of zero?

Standard: NY - 7.NS.1

A. The temperature after a decrease of 5 °F from a temperature of -5 °F

B. The height of an airplane after taking off the ground level and rising 1,000 feet

C. The amount of money received in change after making a $10 purchase with a $20 bill

D. The distance above sea level after increasing 24 meters from a depth of 24 meters below sea level

14. On average, ocean temperatures around the world range from -2°C to 32°C . What is the difference between the two ocean temperatures?

Standard: NY - 7.NS.1

A. -34°C

B. 34°C

C. -30°C

D. 30°C

15. A farmer plants 4 rows of seedlings. The first 3 rows are equal in length. The length of the fourth row is 19 yards. The total length of the 4 rows is 61 yards. What is the length, in yards, of each of the first 3 rows the farmer plants?

A. 14

B. 22

C. 39

D. 42

Directions: Short Response: Complete all of the questions and be sure to show all of your work. All work must be shown to receive full credit!

16. Kasey and Andrew each went for a walk, once a day, for 4 days.

- Kasey walked $\frac{3}{4}$ mile each day.
- Andrew walked $\frac{3}{5}$ mile each day.

At the end of 4 days, how much farther, in miles, had Kasey walked than Andrew?

Standard: NY - 7.NS.3

Show your work.

17. Jennifer has 84.5 yards of fabric to make curtains. She makes 6 identical curtains and has 19.7 yards of fabric remaining. How many yards of fabric does Jennifer use per curtain?

Standard: NY - 7.NS.2 and NY - 7.NS.3

Show your work or explain your answer.

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_____

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18. Susan buys the items listed below at a grocery store.

- 2 packages of chicken priced at $12.36 per package
- ½ pound of broccoli priced at $1.98 per pound
- 1 gallon of milk priced at $3.49 per gallon

There is no sales tax on the food she buys. Susan pays for the items and receives $0.80 in change. What amount of money does Susan use to pay for the items?

Standard: NY - 7.NS.1, NY - 7.NS.2, and 7.NS.3

Show your work.

19. Mr. Gonzalez has only $42.50 to spend at a clothing store. He wants to buy a shirt that costs $29, including tax, and some bracelets that cost $4.50 each, including tax.

Write an equation to determine x, the maximum number of bracelets Mr. Gonzalez could buy.

Equation _____

Solve the equation to determine the number of bracelets Mr. Gonzalez could buy.

SHOW YOUR WORK!

Standard: NY - 7.EE.3

20. Todd orders pictures from a photographer. Each picture costs $7.50. A one-time shipping fee of $3.25 is added to the cost of the order. The total cost of Todd's order before tax is $85.75. How many pictures did Todd order?

Standard: NY - 7.NS.3

Show your work.