

TEST NAME: **7EE34-1 Edwards**
TEST ID: **1709041**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **My Classroom**

Student: _____

Class: _____

Date: _____

1. Which could be the first step to simplify the expression $\frac{3}{11} - \frac{1}{8} \times 2 + \frac{7}{9}$?
- A. subtract $\frac{3}{11}$ and $\frac{1}{8}$
- B. multiply $\frac{1}{8}$ and 2
- C. add 2 and $\frac{7}{9}$
- D. add $\frac{3}{11}$ and $\frac{7}{9}$
2. Dave bought 3 pounds of plums for \$1.00 per pound. he also bought 1.5 pounds of cookies for \$3.00 per pound. Dave gave the cashier \$20 for the plums and cookies. How much change did he receive?
- A. \$7.50
- B. \$12.50
- C. \$16.00
- D. \$18.00
3. Titus bought 2.4 pounds of apples for \$1.50 per pound. He also bought 2.5 pounds of cookies for \$2.50 per pound. Titus gave the cashier \$20 for the apples and cookies. How much change did he receive?
- A. \$9.85
- B. \$10.15
- C. \$16.00
- D. \$19.60
4. Last month, Belinda worked 160 hours at a rate of \$10.00 per hour. If her employer retains 9% of her gross salary, is \$1,500 a reasonable estimate of her net salary?
- A. No, because \$1,300 is a better estimate.
- B. Yes, because \$1,500 is close to $1600 - (10 \times 9) = 1510$.
- C. No, because retaining 10% of her salary would leave her with about \$1,350.
- D. Yes, because her salary will be a bit more than $1600 - 160 = 1440$.
5. On Tuesday, Frankie had \$154.50 in his bank account. On Wednesday, he withdrew \$65.50 from his account. After depositing \$275.25 on Friday, how much money did Frankie have in his account?
- A. \$55.25
- B. \$186.25
- C. \$364.25
- D. \$495.25

6. If $32 - x = 16$, what is the value of x ?

- A. 12
- B. 16
- C. 32
- D. 48

7. What are all possible values of x if $10x + 5 \geq 25$?

- A. $x \geq 2$
- B. $x \geq 3$
- C. $x \geq 20$
- D. $x \geq 30$

8. Maria wants to solve the equation below.

$$3n + 2 = 17$$

Which step would best help Maria solve the equation?

- A. add 2 to both sides
- B. subtract 2 from both sides
- C. subtract 2 from the left side, and add 2 to the right side
- D. add 2 to the left side, and subtract 2 from the right side

9. What are all the values of x that make the inequality $8 - 3x < 20$ true?

- A. $x > -4$
- B. $x > 15$
- C. $x < -4$
- D. $x < 15$

10. What is the value of x if $5x + 55 = 35$?

- A. -20
- B. -4
- C. 18
- D. 90

11. Robert's mom gave him \$9 to buy groceries. She told him to buy a loaf of bread and as many quarts of milk as he could with the money she gave him. A loaf of bread costs \$2.20 and a quart of milk costs \$1.20. If x represents the number of quarts of milk Robert buys, which inequality represents this situation?

- A. $1.2 + 2.2x < 9$
- B. $1.2 + 2.2x \leq 9$
- C. $1.2x + 2.2 < 9$
- D. $1.2x + 2.2 \leq 9$

12. Which of the following functions is represented by the statement, "A number is five more than three times another number"?

A. $f(x) = 3x + 5$

B. $f(x) = 3x - 5$

C. $f(x) = 5x + 3$

D. $f(x) = 5x + 5$

13. A phone company uses the equation $C = 5M + 15$ to calculate the cost in cents, C , for a long-distance phone call lasting M minutes. What is the maximum number of minutes a phone call can last for the call to cost no more than one dollar (100 cents)?

A. 5

B. 17

C. 23

D. 80

14. Kayla rented a canoe for 3 hours. She also paid \$24 for snacks and drinks. The total amount Kayla paid was \$78. The equation below can be used to find c , the amount Kayla paid each hour she rented the canoe.

$$3c + 24 = 78$$

How much did Kayla pay for each hour she rented the canoe?

A. \$51

B. \$34

C. \$26

D. \$18

15. Allison drove a total of 380 miles on a tank of gas. Of those miles, 120 were driven yesterday and the rest of the miles were driven on the highway this morning. Allison's car gets 22 miles per gallon driving in the city and 35 miles per gallon driving on the highway. Which equation could be used to determine the number of gallons of gas Allison used during her drive this morning?

A. $22x + 120 = 380$

B. $35x + 120 = 380$

C. $35(x + 120) = 380$

D. $22(x + 120) = 380$

16. Which list only contains numbers that are solutions to the inequality?

$$-a + \frac{1}{3} > \frac{1}{4}$$

A. 1, 4, 7

B. -9, -5, -1

C. $\frac{1}{3}, \frac{5}{6}, 2$

D. -1, 0, $\frac{1}{10}$

17. Which value for x satisfies the equation $3x - 6 = 15$?

- A. 3
- B. 7
- C. 18
- D. 27

18. Which number is the solution to the following equation?

$$\frac{-1}{2}n + 6 = -10$$

- A. $\frac{-31}{2}$
- B. -8
- C. $\frac{10}{3}$
- D. 32

19. Which value for x makes the following equation true?

$$\frac{x}{9} + 16 = 20$$

- A. $\frac{4}{9}$
- B. $\frac{20}{9}$
- C. 13
- D. 36

20. Which set of values will make the following inequality true?

$$2n + 6 < -12$$

- A. $\{-2, -1, 0\}$
- B. $\{-8, -7, -6\}$
- C. $\{-15, -12, -9\}$
- D. $\{-12, -11, -10\}$