TEST NAME: **williams montessori mr doug ns 1 and 2**
TEST ID: **1894924**
GRADE: **07 - Seventh Grade**
SUBJECT: **Mathematics**
TEST CATEGORY: **Shared Classroom Assessments**

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Student: _____

Class: _____

Date: _____

1. Jessica went deep sea diving. She makes the first stop on her descent at 25 meters below the surface of the water. From that point she dives down further, stopping every 5 meters. If she makes 4 additional stops,which number represents her position, relative to the surface of the water?

    A. 45

    B. 20

    C. −20

    D. −45

2. **Which expression is NOT equivalent to 0?**

    A. one minus eight plus seven

    B. eleven plus four minus fifteen

    C. zero minus six plus five plus one

    D. seventeen plus twelve minus thirty

3. **Which expression is equivalent to zero?**

    A. seven minus ten plus zero

    B. nine minus six plus three

    C. eleven minus six minus five

    D. five minus six minus five

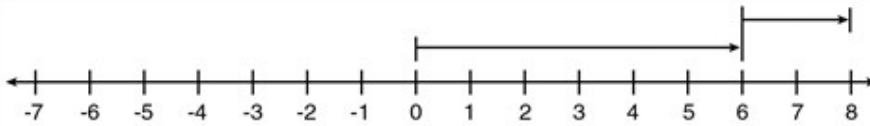4. **Which statement BEST models the equation below?**

$$-7 + 7 = 0$$

    A. A girl earned $7 per hour working 7 hours.

    B. A train backed up 7 feet and then moved forward 7 feet.

    C. A cup contained 7 ounces of water after 7 ounces were poured out from the cup.

    D. A person walked 7 feet forward, stopped, and then walked another 7 feet forward.

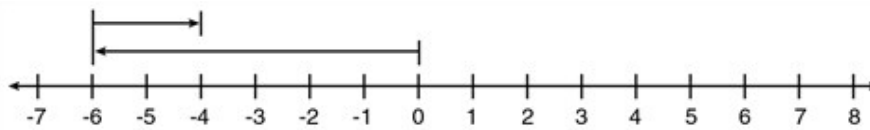5. What does the value of $-8-(-2)$ represent on the number line?

    A. a value that is 2 units from −8 in the positive direction

    B. a value that is 2 units from 8 in the positive direction

    C. a value that is 2 units from −8 in the negative direction

    D. a value that is 2 units from 8 in the negative direction

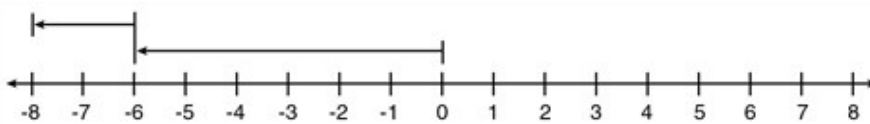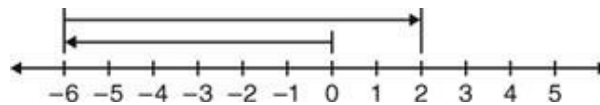6. **Which number line correctly represents -6+2?**

    A.

    B.

    C.

    D.

7. **Which of the following is a correct arithmetic expression for the diagram below?**

    A. $-6+8=2$

    B. $-6-8=-2$

    C. $6+(-8)=-2$

    D. $6-(-8)=2$
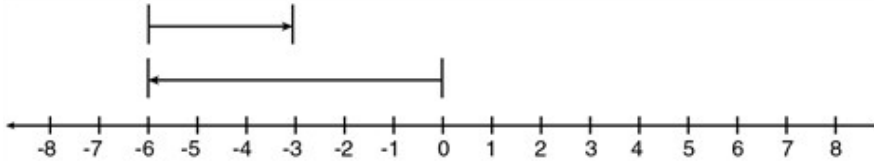
8. **What is the opposite of −15x?**

    A. $-5x$

    B. $-15x$

    C. $15x$

    D. $5x$

9. **What is the distance from −12 to −5 on a number line?**

   A. −17

   B. −7

   C. 7

   D. 17

10. **Which numerical expression is illustrated on the number line shown?**

   A. $-6-(-3)$

   B. $-6-3$

   C. $-3-(-3)$

   D. $-3+6$

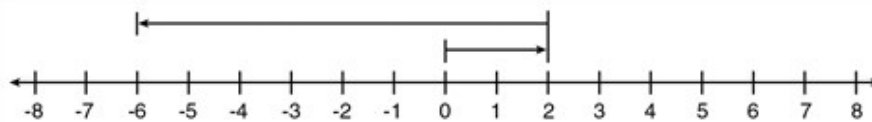11. **Which number line correctly represents 8−2?**

   A.

   B.

   C.

   D.

12. A hiker is at an elevation of 238 feet above sea level. He climbs downward until his elevation has decreased by 144 ft. Which expression can be used to determine his current elevation above sea level?

A. $238 + (-144)$

B. $238 - (-144)$

C. $(-238) + 144$

D. $(-238) - 144$

13. **The lowest recorded temperature in Alaska was –79.8°F at Prospect Creek Camp on January 23, 1971. The lowest recorded temperature in Canada was –81.4°F at Snag in the Yukon Territory on February 3, 1947. Which location was the colder one and by how much?**

A. Snag; 1.6°F

B. Snag; 18.4°F

C. Prospect Creek Camp; 1.6°F

D. Prospect Creek Camp; 18.4°F

14. Amy and Mary are playing a board game that uses game money with values of $5 and $10. At the end of the game, Amy has *n* bills worth $5 each and *d* bills worth $10 each, and Mary has a total of 15 bills. What does $5n + 10d$ represent?

A. total value of the bills Amy has

B. total value of the bills Mary has

C. total number of bills Amy has

D. total number of bills Mary has

15. The water level of a river in the town of Carson decreased by $4\frac{1}{4}$ feet over a 3-month period. Which of these describes the average monthly change in the water level of the river?

A. On an average, the water level decreased by $1\frac{5}{12}$ feet per month.

B. On an average, the water level decreased by $12\frac{3}{4}$ feet per month.

C. On an average, the water level increased by $1\frac{5}{12}$ feet per month.

D. On an average, the water level increased by $12\frac{3}{4}$ feet per month.

16. Water Wizards and Pat's Pipes are two companies that offer plumbing and heating services. Both charge a base fee for all service appointments and an hourly labor rate for repairs. The two companies charge the same base fee, but Water Wizards charges a higher hourly rate than Pat's Pipes. If the total amount Water Wizards charges for x hours of repairs is modeled by the expression $45x + 60$, which expression could represent the total amount Pat's Pipes would charge for the same amount of time spent on repairs?

A. $35x + 60$

B. $45x + 50$

C. $45x + 70$

D. $55x + 60$

17. **Which expression is equivalent to 45(120)?**

A. $120 + 15(120)$

B. $120 - 15(120)$

C. $45 + 120$

D. $25 + 25(120)$

18. **Attendance at a theme park was 12,707; 14,767; 16,990; 18,545; and 20,121 for the first five days of the week. How many people attended the park in those five days?**

    A. 83,110

    B. 83,130

    C. 83,131

    D. 83,930

19. **Vito is making a mixture to feed his cat. He uses 14 lb of dry cat food, 16 lb of moist cat food, and ⊠18⊠ lb of cat treats. What is the total amount of cat food that Vito is mixing?**

    A. $1\ 6\ \boxtimes$ lb

    B. $5\ 12\ \boxtimes$ lb

    C. $15\ 32\ \boxtimes$ lb

    D. $13\ 24\ \boxtimes$ lb

20.
$$79.203 - 1.06 =$$

    A. 68.603

    B. 78.143

    C. 78.197

    D. 79.097

21. **Buyers at a car dealership can choose one of two options. They can either receive 0% financing for 60 months, or a \$1,500 instant rebate. Victor is purchasing a car for \$24,000. Using the \$1,500 instant rebate option, he will finance \$22,500. The monthly payment will be \$430 for 60 months. Using the 0% financing option he will finance the full \$24,000 for 60 months. Which option is BEST and why?**

    A. The $1,500 instant rebate option is best because it reduces the cost of the car.

    B. The two options are equally good because the monthly payment will be the same.

    C. The option of 0% financing over 60 months is best because the monthly payment will be $400.

    D. The $1,500 instant rebate option is best because only $22,500 must be financed, instead of $24,000.

22. **Which expression is equivalent to 635×58?**

    A. $5\ 8 \div 6\ 3\ 5$

    B. $6\ 3\ 5 \div 5\ 8$

    C. $6\ 3\ 5 \times 8\ 5$

    D. $5\ 8 \times 6\ 3\ 5$

23. **What is the product of 120 and 0?**

    A. 0
    B. 12
    C. 120
    D. 1200

24. **Which is equivalent to 99.5(50)?**

    A. $99(50) - 0.5(50)$
    B. $99(50) + 0.5(50)$
    C. $99 + 0.5(50)$
    D. $99(50) - 0.5$

25. **What value of *n* makes the number sentence, n×9=0 true?**

    A. -9
    B. 0
    C. 1
    D. 9

26. **Which expression is equivalent to 102(−17)?**

    A. $100(-17) + 2(-17)$
    B. $100(-17) - 2(-17)$
    C. $100(-10) + 2(-7)$
    D. $100(-10) - 2(-7)$

27. **Which expression is equivalent to 7.2(50)?**

    A. $7(50) - 0.2(50)$
    B. $7(50) + 0.2(50)$
    C. $7 - 0.2(50)$
    D. $7 + 0.2(50)$

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