

## Math 7/7+ Q2 W3 Spiral Review NO WORK = NO CREDIT

Due: 11/20

1. Which pair of expressions are equivalent?

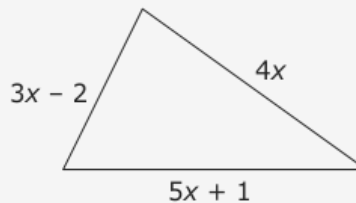
A.  $c^2 + 4d$  and  $2c + 2d + 2d$

C.  $5(t + s)$  and  $5t + s$

B.  $6s - 2$  and  $2(3s - 2)$

D.  $12a + 15b$  and  $3(4a + 5b)$

2. What is the perimeter of the triangle below?

3. Simplify:  $-1.42(3x - 5)$ 4. Simplify:  $3(x + 2) - 2(x + 1)$ 5. Simplify:  $(2x + 4) - (6x + 5)$ 6. Which equation is equivalent to  $-(6 - x) = 24$ 

A.  $-6 - x = 24$

B.  $-6 + x = 24$

C.  $-6 + x = -24$

D.  $-6 - x = -24$

7. Tara used the expression, where  $e$  represents her earnings, to calculate the monthly balance in the savings account for each of her 3 children.

$$\frac{0.3(e + 60) + 1,500}{3}$$

Which expression is equivalent to Tara's expression?

A.  $0.1e + 500$

B.  $0.1e + 506$

C.  $0.1(e + 20) + 500$

D.  $0.1e + 20 + 500$

8. Solve:  $-8w + 2 = 3$ 9. Daniel is paid \$10 per week for selling newspaper subscriptions. He is also paid \$3.50 for each new customer ( $x$ ) that signs up for the subscription. Which equation represents the amount ( $y$ ) Daniel earns per week?

A.  $y = 3.5x$

B.  $y = 10 + x$

C.  $y = 10 + 35x$

D.  $y = 10 + 3.5x$

10. What is the value of  $x$  if  $3x - 6 = 21$ 11. Solve:  $-6x = 12$ 

12. Jill paid \$35 for a sweater. This was \$5 less than twice what she paid for a pair of shorts. How much did Jill pay for the pair of shorts?

13. The difference between the weight of a hammer and the weight of a nail is 3.87 pounds. The hammer weighs 4.00 pounds. The weight of the nail can be calculated using the equation  $4 - n = 3.87$ . What is the weight of the nail ( $n$ )?

14. Mrs. Rodriguez bought 3 tickets for a concert. She also paid for a poster at the concert. Mrs. Rodriguez paid a total of \$102 for the tickets and the poster. The equation below can be used to find  $p$ , the amount Mrs. Rodriguez paid for the poster.

$$3t + p = 102$$

If Mrs. Rodriguez paid \$29 for each ticket,  $t$ , how much did she pay for the poster?

15. Gina is planting a garden. Gina planted beans in  $\frac{6}{15}$  of her garden and tomatoes in  $\frac{4}{15}$  of her garden. How much of the garden will be planted with these two vegetables?
16. Shirley has \$15 to spend at a grocery store. She bought the following items. All prices include tax.
- One bag of dog food for \$5.41
  - One pound of cheese for \$3.99
  - One loaf of bread for \$2.29
  - One case of soda for \$3.45

Shirley claimed that she will have enough money for all of the items. Which statement is true about Shirley's claim?

- A. Shirley's claim is correct since the total cost is less than \$15.
  - B. Shirley's claim is correct since the total cost is greater than \$15.
  - C. Shirley's claim is incorrect since the total cost is less than \$15.
  - D. Shirley's claim is incorrect since the total cost is greater than \$15.
17.  $3.29 + 12.5 =$
18. Blanca decided to open up a checking account at a new bank. The list below describes the 2 checking account plans available at this bank.
- The Regular Account charges a monthly fee of \$15 with unlimited transactions.
  - The Beginner Account charges a monthly fee of \$7. The first 10 transactions are free. There is a \$0.40 charge for each additional transaction.
- Blanca chose the Beginner Account and had 25 transactions during the first month. Based on this information, did Blanca choose the less expensive plan?
19. Four out of 32 students in Mr. Lee's class speak 3 languages. Write a decimal to represent the number of students who speak 3 languages.
20. Your friend bought 5 bags of wild bird seed and a \$16.50 bird feeder. Each bag of birdseed costs the same amount. If your friend spent \$59, find the cost of one bag of birdseed.