

# Two-Step Equations

1. Autumn has a gift card with a \$150 balance. She buys several video games,  $v$ , that cost \$35 each. After the purchases, her gift card balance is \$45. Write an equation to help find out how many video games Autumn bought. 1 point

- A  $45 = 150 + 35 - v$
- B  $35 = -150 + 45 + v$
- C  $45 \times v + 35 = 150$
- D  $35 \times v + 45 = 150$

2. Regina rented a bicycle while she was on vacation. She paid a flat rental fee of \$55 plus \$8.50 each day. The total cost was \$123. Write an equation you can use to find the number of days,  $d$ , she rented the bicycle. 1 point

- A  $55 + 8.5 + d = 123$
- B  $123 = 55 \times d + 8.5$
- C  $123 = 55 + 8.5 \times d$
- D  $55 + (8.5/d) = 123$



3. A restaurant sells a coffee refill mug for \$6.75. Each refill costs \$1.25. Last month Keith spent \$31.75 on a mug and refills. Write an equation you can use to find the number of refills,  $r$ , that Keith bought. 1 point

- A  $6.75 = 31.75 \times r + 1.25$
- B  $6.75 = 31.75 \times 1.25 + r$
- C  $31.75 = 6.75 \times r + 1.25$
- D  $31.75 = 6.75 + 1.25 \times r$

4. A gym holds one 60-minute exercise class on Saturdays and several 45-minute classes during the week. Last week all of the classes lasted a total of 285 minutes. Write an equation you can use to find the number of weekday,  $w$ , classes. 1 point

- A  $45 \times w + 60 = 285$
- B  $60 \times w + 45 = 285$
- C  $285 = 45 + w + 60$
- D  $285 = 45 \times 60 + w$

5. A school bought \$548 in basketball equipment and uniforms costing \$29.50 each. The total cost was \$2,023. Write an equation you can use to find the number of uniforms,  $u$ , the school purchased. 1 point

- A  $548 \times u + 29.5 = 2023$
- B  $29.5 \times u + 548 = 2023$
- C  $2023 - 548 = 29.5 + u$
- D  $2023 - 29.5 = 548 + u$



6. Solve for s:  $13s + 3 = 68$

1 point

- A 6.5
- B 6
- C 5.5
- D 5

7. Solve for d:  $7d + 8 = 64$

1 point

- A 8.0
- B 10.3
- C 7.8
- D 9.1

8. Solve for y:  $-4y + 16 = -64$

1 point

- A 12
- B -12
- C 20
- D -20



9. Solve for k:  $(k/2) + 9 = 30$  (Hint: in the parentheses is k over 2)

1 point

- A 42
- B 19.5
- C 23
- D 78

10. Solve for z:  $3 + (z/5) = -35$  (Hint: in the parentheses is z over 5)

1 point

- A -172
- B -160
- C -178
- D -190

11. The Brown's have triplets and another child who is ten years old. The sum of the ages of their children is 37. How old are the triplets? Write an equation and solve for a.

1 point

- A 12
- B 9
- C 11
- D 10



12. Five less than the quotient of a number and 4 is 15. What is the number? 1 point

- A 40
- B 60
- C 80
- D 100

13. The current temperature in Smalltown is 20 degrees. This is 6 degrees less than twice the temperature that it was six hours ago. What was the temperature,  $t$ , in Smalltown six hours ago? 1 point

- A 26
- B 13
- C 14
- D 34

14. Arly noticed that if he takes the opposite of his age and adds 40, he gets the number 28. How old is Arly? 1 point

- A 86
- B 68
- C 21
- D 12



15. Aiden has 11 more than twice as many customers as when he started selling newspapers. He now has 73 customers. How many did he have when he started? 1 point

- A 31
- B 42
- C 64
- D 48

16. Petra bought a ski jacket on sale for \$6 less than half its original price. She paid \$88 for the jacket. What was the original price? 1 point

- A \$188
- B \$82
- C \$94
- D \$170

17. The Smith family went apple picking. They picked a total of 115 apples. The family ate a total of 8 apples each day. After how many days did they have 19 apples left? 1 point

- A 15
- B 12
- C 14
- D 13



18. Solve for c:  $8(c - 13) = 40$

1 point

- A 20
- B 18
- C 16
- D 14

19. Solve for x:  $-3x - 5 = -26$

1 point

- A 10
- B 7
- C 8
- D 9

20. Solve for y:  $-4.2y + 31.5 = -65.1$

1 point

- A 23
- B -23
- C 8
- D -8



21. You can find the word of the day by going back and finding the answer to question #10. Use that letter a, b, c, or d, to answer this question. (This is your bonus point question) 1 point

- A Uplift
- B Purpose
- C Believe
- D Rise

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