NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD\_\_\_\_\_\_\_\_ SCORE\_\_\_\_\_\_\_\_ Unit 3 Review N

Solve each equation. SHOW ALL YOUR WORK!!!

|  |  |  |
| --- | --- | --- |
| 1. t + 9 = 5   Answer #1\_\_\_\_\_\_\_\_ | 1. a – 5 = 9   Answer #2\_\_\_\_\_\_\_\_ | **3.** -5 = p – 8  Answer #3\_\_\_\_\_\_\_\_ |
| 1. y + 13 = 32   Answer #4 \_\_\_\_\_\_\_\_ | 1. 7x = -9   Answer #5\_\_\_\_\_\_\_\_ | 1. 10 = 8n   Answer#6\_\_\_\_\_\_\_\_ |
| 1. 3.57d = 22.36   Answer #7\_\_\_\_\_\_\_\_ | 1. = -13   Answer #8\_\_\_\_\_\_\_\_ | 1. =   Answer #9\_\_\_\_\_\_\_\_ |
| 1. 5*y* + 9 = 15   Answer #10\_\_\_\_\_\_\_\_ | 1. 5*m* – 3 = 15   Answer #11\_\_\_\_\_\_\_\_ | 1. 2*x* – 3.4 = 7.5   Answer #12\_\_\_\_\_\_\_\_ |
| Answer #13\_\_\_\_\_\_\_\_ | Answer #14\_\_\_\_\_\_\_\_ | **15.** -x + 1 = 7  Answer #15\_\_\_\_\_\_\_\_ |
| 1. 23 – 5x = -8 -4x   Answer #15\_\_\_\_\_\_\_\_ | Answer #16\_\_\_\_\_\_\_\_ | 1. 4(2x – 5) = 14   Answer #17\_\_\_\_\_\_\_\_ |
| 1. 2(5 - x) = -3(2x – 4)   Answer #18\_\_\_\_\_\_\_\_ | 1. -2x + 7x + 5 = 3   Answer #19\_\_\_\_\_\_\_\_ | 1. 4.2 = 0.2(x – 3.5)   Answer #20\_\_\_\_\_\_\_\_ |

1. Jessica is asked to solve the following equation. Jessica’s work is shown below.

Circle Jessica’s mistake, and explain her error.

Explanation of mistake:

8x + 6 = 22

8x = 16

x = 2

Write an equation to represent each of the following word problems. Solve each problem.

1. Simon is ordering equipment for his golf team. He orders one club and a container of golf balls for each player. Each container of balls costs $4. For a team of 5 players, his bill total is $725. How much does each club cost?

Answer #22 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #22 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. William had $60 dollars to spend on fruit. After buying 5 cantaloupes, he had $33.50 left. How much did each cantaloupe cost?

Answer #23 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #23 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Dan wants to purchase some clothes. He spends $45. He buys one pair of pants for $25 and 3 shirts. Each shirt costs the same price. Determine the price of one shirt.

Answer #24 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #24 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- |
|  | Answer #6 \_\_\_\_\_\_\_\_ |
| 7.) | Answer #7 \_\_\_\_\_\_\_\_ |
| 8.) | Answer #8 \_\_\_\_\_\_\_\_ |
| 9.) | Answer #9 \_\_\_\_\_\_\_\_ |
| 10.) 7*y – 5*  < 30 + 2y | Answer #10 \_\_\_\_\_\_\_\_ |
| 11.) -3(*f* – 2) ≥ 12 | Answer #11 \_\_\_\_\_\_\_\_ |

**Graph each inequality on a number line.**

12.) *a* > 8

13.) *m* ≤ -10

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD\_\_\_\_\_\_\_\_ SCORE\_\_\_\_\_\_\_\_ Unit 3 Review H

Solve each equation. SHOW ALL YOUR WORK!!!

|  |  |  |
| --- | --- | --- |
| 1. t + 3 = 5   Answer #1\_\_\_\_\_\_\_\_ | 1. a – 4 = 9   Answer #2\_\_\_\_\_\_\_\_ | **3.** -4 = p – 9  Answer #3\_\_\_\_\_\_\_\_ |
| 1. y + 39 = 26   Answer #4 \_\_\_\_\_\_\_\_ | 1. 2x = -12   Answer #5\_\_\_\_\_\_\_\_ | 1. 20 = 2n   Answer#6\_\_\_\_\_\_\_\_ |
| 1. 9.2d = 55.24   Answer #7\_\_\_\_\_\_\_\_ | 1. = -20   Answer #8\_\_\_\_\_\_\_\_ | 1. =   Answer #9\_\_\_\_\_\_\_\_ |
| 1. 3*y* + 7 = 14   Answer #10\_\_\_\_\_\_\_\_ | 1. 2*m* – 23 = 17   Answer #11\_\_\_\_\_\_\_\_ | 1. 4*x* – 2.6 = 8.2   Answer #12\_\_\_\_\_\_\_\_ |
| 1. 2*x* + 28 = 10   Answer #13\_\_\_\_\_\_\_\_ | 1. 19 + 16x = 3   Answer #14\_\_\_\_\_\_\_\_ | **15.** 8n + 1 = 25  Answer #15\_\_\_\_\_\_\_\_ |
| 1. 21 – 6x = -11 -4x   Answer #15\_\_\_\_\_\_\_\_ | Answer #16\_\_\_\_\_\_\_\_ | Answer #17\_\_\_\_\_\_\_\_ |
| 1. 3(4 - x) = -5(3x – 2)   Answer #18\_\_\_\_\_\_\_\_ | 1. 3x + 5x + 6 = 4   Answer #19\_\_\_\_\_\_\_\_ | 1. 3.5 = 0.4(x – 1)   Answer #20\_\_\_\_\_\_\_\_ |

1. Jessica is asked to solve the following equation. Jessica’s work is shown below.

Circle Jessica’s mistake, and explain her error.

8x + 6 = 22

8x = 16

x = 2 Answer #21explination \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write an equation to represent each of the following word problems. Solve each problem.

1. Simon is ordering equipment for his golf team. He orders one club and a container of golf balls for each player. Each container of balls costs $4. For a team of 5 players, his bill total is $725. How much does each club cost?

Answer #22 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #22 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. William had $60 dollars to spend on fruit. After buying 5 cantaloupes, he had $33.50 left. How much did each cantaloupe cost?

Answer #23 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #23 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Dan wants to purchase some clothes. He spends $45. He buys one pair of pants for $25 and 3 shirts. Each shirt costs the same price. Determine the price of one shirt.

Answer #24 Expression\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Answer #24 Cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| 1. 7*a* > 49 | Answer #5 \_\_\_\_\_\_\_\_ |
|  | Answer #6 \_\_\_\_\_\_\_\_ |
| 7.) | Answer #7 \_\_\_\_\_\_\_\_ |
| 8.) | Answer #8 \_\_\_\_\_\_\_\_ |
| 9.) | Answer #9 \_\_\_\_\_\_\_ |
| 10.) 7*y – 6*  < 30 + 5y | Answer #10 \_\_\_\_\_\_\_\_ |

**Graph each inequality on a number line.**

12.) *a* > 3

13.) *m* ≤ -1