

Name: _____ Date: _____ Period: _____

TRANSLATE AND SOLVE EQUATIONS

Write and solve an equation for each phrase or situation below. Be sure to include a unit in your solution!

1. Tim weighs five pounds more than Mitchell. Find Mitchell's weight if Tim weights ninety-three pounds.

Define a variable:

Equation:

2. James is 46 years old. This is Uncle Tom's age divided by 2 plus 14 years. How old is Uncle Tom?

Define a variable:

Equation:

3. The cost of five books is \$71.00. What is the cost of each book?

Define a variable:

Equation:

4. Three-fifths of a number decreased by one is twenty-three. What is the number?

Define a variable:

Equation:

5. For 15 weeks, Barry put the same amount of money in a jar. Then he took out \$9 to spend on ice cream. He now has \$84. How much money did he put in the jar each week?

Define a variable:

Equation:

6. The quotient of a number and negative four decreased by ten is two. What is the number?

Define a variable:

Equation:

7. Damien gave half of his books to the local library. His best friend gave him 3 more books as a gift. He now has 57 books. How many did he have to start?

Define a variable:

Equation:

8. Sanai collects rubber ducks from all over the world. She currently has 13. If she collects 2 more each year, how many years will it take her to have 31 rubber ducks?

Define a variable:

Equation:

9. Carlos is building a screen door. The height of the door is 1 foot more than twice its width. What is the width of the door if the height is 7 feet?

Define a variable:

Equation:

11. In February, Paul's electric bill was three dollars more than one-half his gas bill. If the electric bill was ninety-two dollars, what was the gas bill?

Define a variable:

Equation:

13. A taxi service charges \$1.50 plus \$0.60 per mile for a trip to the airport. Angie paid \$13.50 for her ride to the airport. How many miles did Angie travel?

Define a variable:

Equation:

15. Keiko and her sisters dumped all of their Halloween candy onto the floor to split it up. They split their Reese's Peanut Butter Cups equally among the 4 of them. If each sister got 24 Reese's, how many did they have to start?

Define a variable:

Equation:

10. Shawna is sixty-six inches tall. That is twenty inches less than two times Mindy's height. How tall is Mindy?

Define a variable:

Equation:

12. Tshi bought a canvas for \$6.97 and 7 tubes of paint that each cost the same amount. If the total purchase was \$22.02, how much did each tube of paint cost?

Define a variable:

Equation:

14. Drew was shopping on Amazon.com for Black Friday deals. He purchased 5 DVDs, all at the same price. The tax on his purchase was \$6, bringing the total cost to \$61. What was the price of each DVD?

Define a variable:

Equation:

16. Santa Claus has been experiencing some recent back pain and is unable to carry large bags of toys over his shoulder. As a result, he has decided to use FedEx to deliver many of his gifts this year. FedEx charges a flat rate of \$2.50 plus \$0.85 per pound. If the cost of sending gifts to the Jones's was \$28.85, how much did their gifts weigh?

Define a variable:

Equation: