

Name: _____

Core: _____

Date: _____

Try translating the following into expressions

Ones to watch:

- When the terms “_____” or “_____” are used the number or variable will come after the operation.

Examples: “10 less than x” _____

“5 subtracted from y” _____

“11 fewer than z” _____

Try:

1. The quotient of a number and 3 _____

2. 17 subtracted from a number _____

3. 5 more than twice a number _____

4. 8 less than quadruple a number _____

5. 6 fewer than 4 times a number h _____

6. 12 more than triple a number _____

7. a number divided by 14 _____

8. 7 subtracted from a number _____

9. 9 less than a number _____

10. y less than 19 _____

11. The difference between 11 and x _____

12. 8 more than four times x _____

13. 14 less than the quotient of x and 4 _____

14. $3x$ less than 26 _____

15. 36 fewer than 3 times a number _____

Writing & Solving Equations Notes

STEP 1:	STEP 2:	STEP 3:	STEP 4:
Highlight/Underline important information.	Define a variable for the missing information	Write an equation using your variables and SOLVE!	Does your solution make sense? CHECK YOUR WORK!

For each word problem, clearly define your variable, write an equation and solve.

<p>1. You and three friends go to dinner at Red Robin. When the waitress brought the bill, you all decided to split the bill evenly. If each person paid \$14, what was the total bill?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>2. After you withdraw \$60 from your savings account, the balance is \$388. How much money did you have before the withdrawal?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>3. The population of South Africa is three times the population of Greece. If the population of South Africa is 39 million, find the population of Greece.</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>4. I bought an iPod touch and new headphones and paid a total of \$264. The headphones cost \$56, how much did I pay for the iPod touch?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>

<p>5. A class of 35 students separated into equal sized teams that had 5 students per team. How many teams did the class split into?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>6. The Wyatt family went on a road trip out west. They drove at an average rate of 62 miles per hour. How long did it take them to drive 558 miles?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>7. Casey is 14 years old. Her sister Sarah is 3 years younger than her. How old is Sarah?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>8. Ahmad, Malik, and Jose have collected \$83.52 to help out a neighbor. If Ahmad has \$18.15 and Jose has \$33.92, write and solve an equation to determine how much Malik has collected.</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>
<p>9. A rectangle's width is one-fourth of its length. If the width is 9 inches, what is the length of the rectangle?</p>	<p>Variable: _____</p> <p>Equation: _____</p> <p>Solution: _____</p>

10.) Karter had \$14 in his bank account before putting in his birthday earnings. He now has \$98. How much money did he earn at his birthday?

Variable : _____

Equation : _____

Solution: _____

11.) Larsen spent \$78 on three pairs of sandals for the summer. If each pair of sandals cost the same amount, write an equation that represents this situation and solve to find the cost of one pair of sandals.

Variable : _____

Equation : _____

Solution: _____

12.) Pamela earns \$18 for vacuuming and dusting her house. She spends \$4 on lunch and \$9 on a new dress. Write and solve an equation to show how much money Pamela has left.

Variable : _____

Equation : _____

Solution: _____

13.) Thomas had a bag of gum drops that he divided equally among his four friends. If each friend receives 56 gum drops, how many gum drops did he start with?

Variable : _____

Equation : _____

Solution: _____

14. Laurie's job as an amusement park mascot pays her \$15 per day with an additional \$9 per hour. How much will her total paycheck be if she works 5 hours per day, for 3 days?

Variable : _____

Equation : _____

Solution: _____

15. Harper went to the mall and spent \$21. He purchased 3 t-shirts that all cost the same amount. How much did each shirt cost?

Variable : _____

Equation : _____

Solution: _____

16. John and Sally each bought lunch. Together, they spent a total of \$19. If Sally's lunch cost \$8, how much did John's lunch cost?

Variable : _____

Equation : _____

Solution: _____

17. Lauren had \$4, then earned another \$10. She used her money to purchase two pencils, each cost \$2, and a new pencil sharpener. If she spent all her money to purchase these items, how much did the pencil sharpener cost?

Variable : _____

Equation : _____

Solution: _____

19. Wallace had \$4 on Monday before earning \$12 more by mowing his neighbor's lawn. Using his money, he purchased lunch and still had \$7 left. How much did his lunch cost?

Variable : _____

Equation : _____

Solution: _____

19. Yolanda and Jasmine purchased new workout clothes for the gym. Jasmine spent 2 times as much as Yolanda. Together, they spent \$24. How much did each girl spend?

Variable : _____

Equation : _____

Solution: _____