

Name: _____ Date: _____ Per: _____

Write an algebraic expression for each context. Tell what your variable(s) represent.

1.	Michelle earns \$45 an hour and has \$33 in her checking account. Expression: _____ Variable(s) Meaning: _____
2.	Steph bikes 350 miles a month. Expression: _____ Variable(s) Meaning: _____
3.	John earns \$6 for every good deed he does. He has \$17 in his checking account already. Expression: _____ Variable(s) Meaning: _____
4.	Isabella plays 9 minutes of video games a day. Expression: _____ Variable(s) Meaning: _____
5.	Gale collects $13\frac{1}{2}$ inches of rain per week and she spilled 1 inch of it. Expression: _____ Variable(s) Meaning: _____

Write an algebraic expression to match each context:

- 6. 9 more than y _____
- 7. 46 subtracted from b _____
- 8. the sum of 10 and w _____
- 9. the quotient of 15 and n _____
- 10. 63 less than p _____
- 11. x less than 7 _____
- 12. the product of a number and 4 _____
- 13. one-third of b _____
- 14. p more than 24 _____
- 15. y decreased by 42 _____

16. **Circle** the coefficient and **write** the number of terms in the equation below:

$7x - 3 + 2y$ Number of terms: _____

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17. It takes Ms. Hull 27 minutes to make a worksheet or to make a test.

- a. Write an expression using a variable that shows how long it takes Ms. Hull to make some worksheets. Explain what your variable represents.

- b. Evaluate your expression to find how long it would take her to make 13 worksheets.

- c. Write an expression using variables that shows how long it takes Ms. Hull to make some worksheets and make some tests. Explain what your variables represents

- d. Write a different expression that also shows how long it takes Ms. Hull to make some worksheets and make some tests. Explain how you know these expressions are equivalent.

- e. One day Ms. Hull made 4 worksheets and 7 tests. Evaluate one of your expressions to find how long it will take her to make them all.

18. Lyvia has 16 quarters and 19 dimes. Bella has 18 quarters and some dimes.

- a. Write an expression using a variable to show how many coins Bella has. State what your variable(s) represent.
- b. Evaluate your expression from (a) for
 - 2 dimes: _____
 - 5 dimes: _____
 - 10 dimes: _____
 - 25 dimes: _____

- c. If Bella has the same number of coins as Lyvia, write an equation setting their numbers of quarters and dimes equal. Explain how you can use a property to find the number of dimes Bella has.