

MasterMath

Name _____

Date _____

Writing Equations in One Variable

CUCCV

Please CUCCV each word problem, write an equation and solve the problem.

1. Elsie had decided that she wanted to be a bookkeeper like her Aunt Freda. She knew that she needed to good at math in order to become a bookkeeper, so she promised herself that she would make at least a B in math. In order to earn a B grade, she knew she needed at least an 80% average on tests. So far she has gotten a 65%, a 90%, and a 86% on her math tests. What is Elsie's current test average in math?

A

equation	answer
$A = (65\% + 90\% + 86\%) \div 3$	80.33%

2. You and your brother wanted to buy a trail bike that costs \$428. You had ridden your friend's trail bike at Pumpernickle State Park, and it was lots of fun. You decided to start a leaf-raking business, and hoped you could earn enough doing that to pay for the bike. You discovered that people would pay you \$15 to rake their leaves. How many lawns will you have to rake in order to be able to buy the bike?

L

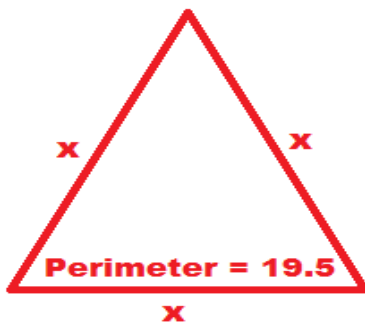
equation	answer
$L = 428 \div 15$	28.53, or 29

3. Half of your friends have brown hair. One-third of your friends have black hair. The rest have either yellow or red hair. What fraction of your friends have yellow or red hair?

X

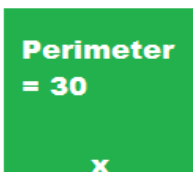
equation	answer
$1/2 + 1/3 + x = 1$	1/6

4. Write an equation, and solve for x:



equation	answer
$3x = 19.5$	6.5

5. Write a formula to determine the value of x for this square, and then determine what x equals.



equation	answer
$x + x + x + x = 30$	7.5