WEEK 2 DAY 20th April 2020

WALT: Show understanding for the variables

I know I can use an alphabet for an unknown number.

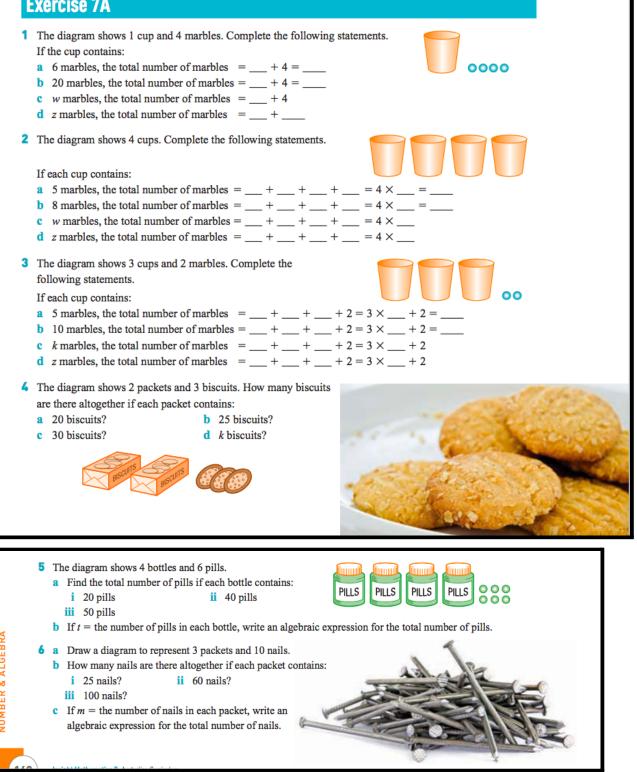
<u>Variables</u>

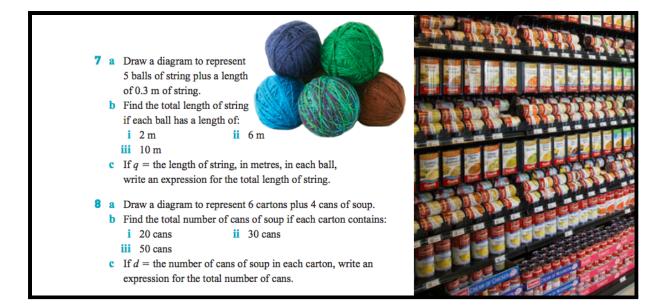
Mathematicians simplify statements by using a language in which letters or other symbols represent numbers of objects. This language is called algebra. Letters and other symbols, when used to take the place of numbers, are called pronumerals. Sometimes they are referred to as variables because the number that they replace can vary. Statements in which letters are used to represent numbers are called algebraic expressions. EXAMPLE 1 a The diagram shows 1 cup and 2 marbles. How many marbles are there altogether if the cup contains: i 5 marbles? ii 8 marbles? iii w marbles? b The diagram shows 3 cups. What is the total number of marbles if each cup contains: i 5 marbles? ii 8 marbles? iii w marbles? c The diagram opposite shows 2 cups and 3 marbles. How many marbles are there altogether if each cup contains: i 5 marbles? ii 8 marbles? iii w marbles? a i Number of marbles = 5 + 2 = 7ii Number of marbles = 8 + 2 = 10iii Number of marbles = w + 2**b** i Number of marbles = $5 + 5 + 5 = 3 \times 5 = 15$ ii Number of marbles = $8 + 8 + 8 = 3 \times 8 = 24$ iii Number of marbles = $w + w + w = 3 \times w$ **c** i Number of marbles = $5 + 5 + 3 = 2 \times 5 + 3 = 13$ ii Number of marbles = $8 + 8 + 3 = 2 \times 8 + 3 = 19$ iii Number of marbles = $w + w + 3 = 2 \times w + 3$

View the video

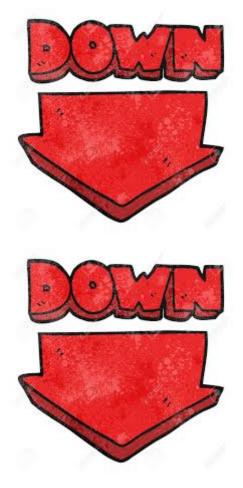
Algebra in action

Exercise 7A





Check your answers



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Exercise 7A
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