

May 12-11:20 AM

1-2 Variables and Expressions

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Addition +
 add, plus, sum, and, more than

Subtraction —
 minus, subtract, less than, difference

Multiplication (x, •)
 times, multiply, by, product, double

Division (÷)
 quotient, divide

Equals (=)
 answer is, equals

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to identify its translated operation.

Decrease	Older	Double	Difference	same as
More Than	Twice	Product	Smaller Than	Square
Triple	Less Than	Diminished	Sum	is
Quotient	Each	Increase	Of	

Jul 24-4:33 PM

Ex. 1 Translate into an algebraic expression.

A number z times 2 minus 6 is the same as m divided by 3.

$$z \cdot 2 - 6 = \frac{m}{3}$$

Ex. 2 Translate:
 30 pencils divided among some students

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Ex. 3 Translate:
 Three times a number t more than twelve equals forty.

Ex. 4 Translate:
 four dollars less than the cost of the sweater.

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Ex. 5 Translate:

one half of the difference of a and b is 54.

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Ex. 6 Translate:

The square of m minus the cube of n is sixteen.

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Ex. 7 Translate:

seven less than the amount of cents in a number of nickels.

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Ex.8 Translate each expression:

Let p represent the price of a CD.
A tape costs \$5 less than a CD.

The price of a CD, increased by \$6

The price of 6 six tapes

\$6 less than the price of a tape

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Ex. 9 Translate:

Let w represent the width of a rectangle.
The length is 7cm more than the width.

7 cm less than twice the width

Twice the width plus twice the length

The product of the width and the length

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How Many Parakeets?

To find the number of parakeets you will need the following clues.

1. Sam's shoe size is one-quarter the number of minutes it took Li Hua to wash her sheepdog.
2. The number of players on the Lizard City tidilywinks team is 7 more than the number of rutabaga plants in Carlos's window box.
3. Talasi's golf score was 1 less than 3 times the number of parakeets in the Lizard City Zoo.
4. The number of sour notes that Marie hit while playing "Ramona" on her sousaphone was 6 less than 6 times the number of avocados that Max used in his guacamole.
5. If Talasi's golf score is increased by 10, the result is 3 times the number of minutes it took Li Hua to wash her sheepdog.
6. The number of players on the Lizard City tidilywinks team is 1 less than 4 times the number of avocados that Max used in his guacamole.
7. The number of rutabaga plants in Carlos's window box is 5 less than twice Sam's shoe size.

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QUESTION: If Marie hit 24 sour notes while playing "Ramona" on her sousaphone, then how many parakeets are there in the Lizard City Zoo?

To solve, follow these steps:

1. Use clue #4 to find the number of avocados that Max used in his guacamole.
2. Use clue #6 and your answer to the preceding question to find how many players there are on the Lizard City tiddlywinks team.
3. Use clue #2 and your answer to the preceding question to find how many rutabaga plants there are in Carlos's window box.
4. Use clue #7 and your answer to the preceding question to find Sam's shoe size.
5. Use clue #1 and your answer to the preceding question to find how long it took Li Hua to wash her sheepdog.
6. Use clue #5 and your answer to the preceding question to learn Talasi's golf score.
7. Use clue #3 and your answer to the preceding question to find how many parakeets there are in the Lizard City Zoo.

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