2.2 Translate Between Words and Math

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In word problems, you may need to translate words to math.

Action	Operation
Put together or combine	Add
Find how much more or less	Subtract
Put together groups of equal parts	Multiply
Separate into equal groups	Divide

Feb 23-9:21 AM

Lake Superior is the largest lake in North America. Let *a* stand for the area in square miles of Lake Superior. Lake Erie has an area of 9,910 square miles. Write an expression to show how much larger Lake Superior is than Lake Erie.

a = lake Superior

9,910 = lake Erie

a − 9,910

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Let *p* represent the number of colored pencils in a box. If there are 26 boxes on the shelf, write an algebraic expression to represent the total number of pencils on the shelf.

P = # of pen. in box

26 = # of boxes

26p or 26·p or 26(p)

P·26

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The Nile River is the world's longest river. Let *n* stand for the length in miles of the Nile. The Paraná River is 3,030 miles long. Write an expression to show how much longer the Nile is than the Paraná.

n = length of Nile

3,030 = Parana

n − 3,030

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Let *p* represent the number of paper clips in a box. If there are 125 boxes in a case, write an algebraic expression to represent the total number of paper clips in a case.

P = # of clips.

125 = # of boxes

125(p) or 125p or 125·p

or P·125

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Write each phrase as a numerical or algebraic expression.

A. 987 minus 12

$987-12$

B. x times 45

$45x$

$x \cdot 45$

$45(x)$

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Write each phrase as a numerical or algebraic expression.

A. 42 less than 79

$79-42$

B. y divided by 22

$y \div 22$ $\frac{y}{22}$

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Write two phrases for each expression.

A. $\frac{16}{b}$

16 divided by b

The quotient of 16 and b

B. (75)(32) 75 times 32

Product of 75 and 32

75 multiplied by 32

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Write two phrases for each expression.

A. 17 – 14

17 minus 14

14 less than 17

Take away 14 from 17

The difference of 17 and 14

14 subtracted from 17

B. $\frac{12}{c}$

12 divided by c

The quotient of 12 and c

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1. Let x represent the number of minutes Kristen works out in one week. Write an expression for the number of minutes she works out in 4 weeks.

Write each phrase as a numerical or algebraic expression.

2. 7 less than x

3. The product of 12 and w

Write a phrase for each expression.

4. $17 + x$

5. $n \div 12$

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