

Ch 1.1 Using variables

Vocabulary

Variable:

Algebraic Expression:

Equation:

Open sentence:

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Ex 1) Words to symbols

+	-	x	÷	=	

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Ex1a) 8 less than y

Ex1b) 10 more than x

Ex1c) the product of x and 5

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Define a variable and write an expression for each phrase.

Ex2a) Six less than 4 times a number.

Ex2b) Three more than the difference of 5 and a number.

Ex2c) Twelve decreased by the quotient of 98 and a number.

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Try

1. Write an algebraic expression for each phrase.

a. the quotient of 4.2 and c

b. t minus 15

2. Define a variable and write an algebraic expression for each phrase.

a. 9 less than a number

b. the sum of twice a number and 31

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Define the variables and write an equation to model the situation.

Ex2a)

Writing an Equation Write an equation to show the total income from selling tickets to a school play for \$5 each.

Relate The total income is 5 times the number of tickets sold.

Define Let t = the number of tickets sold.

Let I = the total income.

Write

= =

Ex2b) What is the total number of candy bars left in the bowl if you passed out 25 to your classmates?.

Relate:

Define:

Write:

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Try#3. The perimeter of a hexagon is six times the length of a side.

Relate:

Define:

Write:

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Ex3a)

Writing an Equation from a Table Write an equation for the data in the table.

Gallons	4	6	8	10
Miles	80	120	160	200

Relate Miles traveled equals 20 times the number of gallons

Define Let m = the number of miles traveled.

Let g = the number of gallons.

Write $m = 20g$

$m = 20g$

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Ex3b) Real World

Sales Write an equation for the data in the table.

Cost of Purchase	Change From \$20
\$20.00	\$0
\$19.00	\$1.00
\$17.50	\$2.50
\$11.59	\$8.41

Write an equation for the data in the table.

Ex3c)

Amounts Earned and Saved

Earned	Saved
\$15	\$7.50
\$20	\$10
\$25	\$12.50
\$30	\$15

earned	saved

Relate:

Define:

Write:

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Try:

4. Suppose the price of a CD is \$15. Write an equation to find the cost of n CDs.

5. Write an equation for the data in the table.

amount earned	\$15	\$20	\$25	\$30
amount saved	\$7.50	\$10	\$12.50	\$15

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