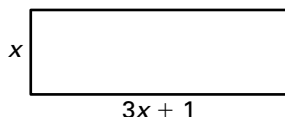


Chapter Test A

For use after Chapter 1

Evaluate the expression for the given value of the variable.

- $q - 10$ when $q = 13$
- $34.5x$ when $x = 4.2$
- You deposit \$70 in a savings account that pays an annual interest rate of 3%. How much simple interest would you earn in 2.5 years?
- The perimeter of a rectangle is the sum of its four sides. Find the perimeter of the rectangle below.

**Evaluate the power.**

- 2^6
- 5^3

Evaluate the expression for the given value of the variable.

- c^5 when $c = 3$
- $(2y)^3$ when $y = 3$

Evaluate the expression for the given values of the variables.

- $x^2 + y$ when $x = 4$ and $y = 3$
- $(a + b)^3$ when $a = 3$ and $b = 5$
- A box of rice is 19 centimeters long, 12 centimeters wide, and 3.5 centimeters deep. The volume of the box is the product of its length, width, and height. What is the volume of the box?

Evaluate the expression.

- $8 - 6 + 4$
- $16 \div (4 - 2) - 3$

Check whether the given number is a solution of the equation or the inequality.

- $3x + 5 = 17$; 2
- $4y - 7 = 3y - 4$; 3

Check whether the given number is a solution of the inequality.

- $2m - 3 < 4$; 2
- $5 + 2n \geq 12$; 0

Write the verbal phrase as an algebraic expression. Use x for the variable in your expression.

- Sum of 8 and a number
- Ten less than a number

Answers

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

Chapter Test A

For use after Chapter 1

Write the verbal sentence as an equation or an inequality.

- 20. The sum of three and x is ten.
- 21. Four is greater than six times a number t .

Write an equation or inequality to model the situation.

- 22. The distance d to school is $1\frac{1}{2}$ miles more than the distance p to the park.
- 23. The perimeter of a square with a side length s is greater than or equal to seventy plus five.
- 24. The table shows the protein content of some foods. Make a bar graph of the data.

<i>Food</i> ($\frac{1}{2}$ cup)	spaghetti	rice	peanut butter
<i>Protein</i> (grams)	2	5	8

Make an input-output table for the function. Use 0, 1, 2, and 3 as the domain.

25. $y = 7x + 2$

<i>Input</i>	<i>Output</i>

26. $y = 12 - 3x$

<i>Input</i>	<i>Output</i>

Answers

- 20. _____
- 21. _____
- 22. _____
- 23. _____
- 24. Use grid at left.
- 25. Use table at left.
- 26. Use table at left.