BitWith Bite

MATHEMATICS WORKSHEET

Functions

Chapter: Algebra I · Level ★★☆ · Time: 30 min

SCORE ___ / 20

Name _____ Class _____ Date _____

AFTER THIS WORKSHEET YOU CAN

✓ Evaluate a function at a value. ✓ Understand input and output. ✓ Identify the domain.

✓ Apply the vertical line test.

Section A · Concept Check • BEGINNER 4 × 1 = 4

1 If f(x) = 4x + 2, then f(6) = ?

◯ A. 26 ◯ B. 24 ◯ C. 8 ◯ D. 18

2 If f(x) = x^2 − 3, then f(−2) = ?

◯ A. 1 ◯ B. 7 ◯ C. −7 ◯ D. −1

3 If f(x) = $2x^2$ + 1, then f(2) = ?

◯ A. 9 ◯ B. 5 ◯ C. 8 ◯ D. 17

4 If g(x) = −x + 5, then g(5) = ?

◯ A. 0 ◯ B. 10 ◯ C. −5 ◯ D. 5

Section B · Problem Solving • INTERMEDIATE 2 + 3×3 = 11

5 A function gives exactly one _____ for each input.

6 For f(x) = 4x + 2, f(6) = _____.

7 If f(x) = 4x + 2, find f(6).

8 If f(x) = x^2 − 3, find f(−2).

9 If f(x) = $2x^2$ + 1, find f(2).

Section C · Challenge • CHALLENGE 5

10 If g(x) = −x + 5, find g(5).

Reflection — the most useful thing I learned: _____

A ___/4 B ___/11 C ___/5 Total ___/20

Teacher's Signature

Parent's Signature

✂ ANSWER KEY — FOLD OR CUT BEFORE HANDING OUT

1-A 2-A 3-A 4-A | 5 output 6 26 7 = 26 8 = 1 9 = 9 | 10 = 0