Algebra

Answer Keys, Program 7: Worksheets 1 – 3

Each question on every worksheet offers the students the option of marking "Teacher" instead of or in conjunction with answering the question. The "Teacher" option is included to support student understanding and achievement. Students may have as much help and guidance as they need to understand concepts and master skills.

Instructors may decide whether to use the two or four point scoring rubric for constructed response problems (problems that use numbers, pictures, or words to justify/explain student answers). See the appendix for the complete rubrics.

Two-Point Scoring Rubric

2 – Complete
1 – Partial
0 – Inadequate

Four-Point Scoring Rubric

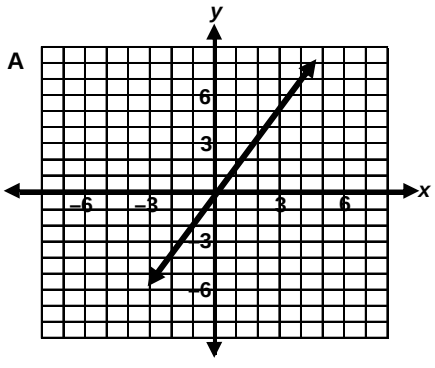
4 – Complete
3 – Clear
2 – Partial
1 – Minimal
0 - Inadequate

Worksheet 1

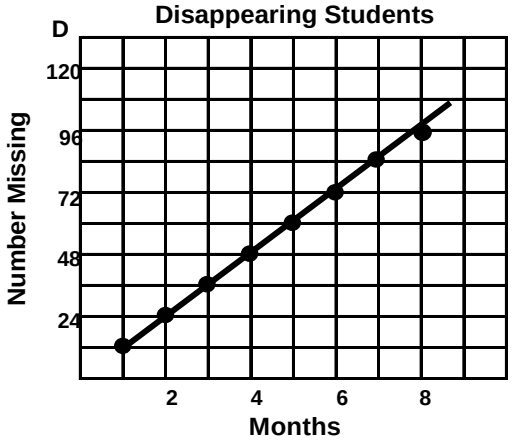
1. B. 13
2. C. 6
3. B. $m \geq 39$
4. C. 1 ft. 10 in.
5. A. $n < 4$
6. C. $p = 0$
7. D. 35 in.
8. A. 104°
9. D. 5 in.
10. C. 5

Worksheet 2

1. B. $10m + 6 = 36$
2. D. $3
3. A. $x = 20$
4. B. $12x + 7$
5. C. 2
6. B. $p = 3(c + 0.7)$
7. A.



8. A. $2s + 3(3.29) = 17$
9. C. $6(2a + b)$
10. B. y decreases by 12
11. D.



Worksheet 3

1. B. Carter had $12. Then he earned money for each of three jobs shoveling snow. If Carter had a total of $72 dollars when he finished the jobs, how much did he charge (x) to shovel snow?
2. $35 + 20d = 115$, 4 days. Answers should reflect the following. $115 – 35 = 80$ and $80 \div 20 = 4$.
3. A. Divide the previous number by three and subtract 2.
4. D. $2(x + 9)$
5. A. $.05 \times n = \$2.00$
6. D. $7n - 12 = 44$
7. Rule: Input $\times 70$ = Output; 280, Answers may reflect the following reasoning: 1**)** To go from output to the input, divide. $1.4 \div .02 = 70$. 2) Check the results with other inputs/outputs. The results are always the same Output $\div$ by Input = 70. Example: $87.5 \div 1.25 = 70$. 3) To get from the input to the output, do the opposite operation. 4 x 70 = 280.
8. D. $2 \bullet 500 – u = 214$
9. D. $2B + B + .5B = 28$
10. B. $15s + 30(s + .08)$
11. A.

