

Section 4-1: Solving Equations Using More than One Operation

Properties of Equality

1. 080219a, P.I. A.A.6
If $2x + 5 = -25$ and $-3m - 6 = 48$, what is the product of x and m ?
[A] -33 [B] 3 [C] -270 [D] 270

2. 060519a, P.I. A.A.6
If $-2x + 3 = 7$ and $3x + 1 = 5 + y$, the value of y is
[A] 1 [B] 0 [C] 10 [D] -10

3. 060409a, P.I. A.A.6
At the beginning of her mathematics class, Mrs. Reno gives a warm-up problem. She says, "I am thinking of a number such that 6 less than the product of 7 and this number is 85." Which number is she thinking of?
[A] 13 [B] 84 [C] 637 [D] $11\frac{2}{7}$

4. 010801a, P.I. A.A.6
Robin spent \$17 at an amusement park for admission and rides. If she paid \$5 for admission, and rides cost \$3 each, what is the total number of rides that she went on?
[A] 2 [B] 4 [C] 12 [D] 9

5. 010733a, P.I. A.A.6
Every month, Omar buys pizzas to serve at a party for his friends. In May, he bought three more than twice the number of pizzas he bought in April. If Omar bought 15 pizzas in May, how many pizzas did he buy in April?

[1] D

[2] D

[3] A

[4] B

[2] 6, and appropriate work is shown, such as solving the equation $2x + 3 = 15$ or trial and error with at least three trials and appropriate checks.

[1] Appropriate work is shown, but one computational error is made.

or [1] Appropriate work is shown, but one conceptual error is made.

or [1] A correct equation is written, but no further correct work is shown.

or [1] The trial-and-error method is attempted and at least six systematic trials and appropriate checks are shown, but no solution is found.

or [1] 6, but no work or fewer than three trials and appropriate checks are shown.

[0] A zero response is completely incorrect, irrelevant or incoherent or is a correct response that was obtained by an obviously

[5] incorrect procedure.