

1. What is the value of each expression when  $m = 4$  and when  $m = -4$ ?

a) When  $m = 4$ ,  $3m - 3 = \underline{9}$  ✓

When  $m = -4$ ,  $3m - 3 = \underline{-9}$  ✗

b) When  $m = 4$ ,  $m + 8 = \underline{12}$  ✓

When  $m = -4$ ,  $m + 8 = \underline{-12}$  ✗

c) When  $m = 4$ ,  $10 - 2m = \underline{2}$  ✓

When  $m = -4$ ,  $10 - 2m = \underline{-2}$  ✗

d) When  $m = 4$ ,  $5 + 3m = \underline{17}$  ✓

When  $m = -4$ ,  $5 + 3m = \underline{-17}$  ✗

2. What does each expression mean?

a)  $k + 5$   $5 + 5 = 10$

b)  $3k$   $3k = 15$

c)  $40 - 5k$   $15$

3. Write an algebraic expression to match each description.

a) Add 4 to a number.  $k = 12$   $2k + 4 = 28$

b) Multiply a number by 3. Then add 5.

$k = 5$   $2k \times 3 + 5$   $30 + 5 = 35$

c) Triple a number. Then subtract it from 100.

$k = 100$   $3k - 100 = 200$

4. Write an algebraic equation to match each description.

a) If you double a number and add 3, you get 25.

$k = 12$   $2k + 3 = 25$

b) If you subtract a number from 20, you end up with 13.

$k = 11$   $3k - 20 = 13$

c) Adding 4 to a number is the same as adding 3 and then adding 1 to a number.

$k = 4$   $4k + 3 + 1 = 20$