Independent Practice **Relations and Functions**
A.15

Read and solve.

1. What is the domain of the set of ordered pairs:
{ (-5, -4) , (-4, 4) , (2, 3) , (4, 5) }

A. {-5, -4, 2, 4}
B. {-4, 3, 4, 5}
C. {-5, -4, 4, 5}
D. {-5, 2, 3, 4}

2. What is the range of the function f(x) = 5 – 8x when the domain is {-2, 2, 4}?

A. {-27, -11}
B. {-27, -11, 21}
C. {-2, 2, 4}
D. {1/8, 3/8, 7/8}

3. If f(x) = (2/3)x – 6, what is f(12)?

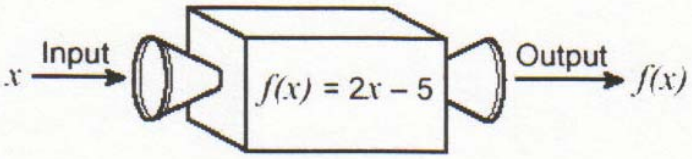
A. 2
B. 8
C. 14
D. 27

4. (0, -3) , (2, -2) , (4 , -1) , (6, 0) , ...

The ordered pairs above follow a pattern. If (10, y) is in this pattern, what is the value of y?

A. 1
B. 2
C. 3
D. 4

5.



Using the function machine in the diagram, what is the output when 12 is input?

A 7

B 8.5

C 19

D 29