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TO PASS 75% or higher

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## Practice quiz on Sets

TOTAL POINTS 3

1. Let  $A = \{1, 3, 5\}$ . Is the following statement:  $3 \in A$ . True or false?

1 / 1 point

- ☐ False  
☒ True

✓ **Correct**

The symbol  $\in$  stands for "is an element of" and it is true that 3 is an element of  $A$ . The other two elements of  $A$  are 1 and 5.

2. Let  $E = \{-1, -2, -3\}$ . Compute the cardinality  $|E|$  of  $E$ :

1 / 1 point

- ☐ -3  
☐  $E$   
☒ 3  
☐ 0

✓ **Correct**

Recall that the cardinality of a set is the number of elements in it. Since  $E$  has three elements (which are  $-1, -2, -3$ ), the cardinality of  $E$  is  $|E| = 3$ .

3. Let  $A = \{1, 3, 5\}$  and  $B = \{3, 5, 10, 11, 14\}$ .

1 / 1 point

Which of the following sets is equal to the intersection  $A \cap B$ ?

- ☐  $\{1, 3, 5\}$   
☒  $\{3, 5\}$   
☐  $\{3, 5, 10\}$   
☐  $\{3\}$

✓ **Correct**

The intersection of two sets consists precisely of the elements they share in common. The elements 3 and 5 are in both  $A$  and  $B$ .