

**Topic: Multiples**

**Question:** Which list contains only multiples of the number 7?

**Answer choices:**

- A      3, 6, 9, 12
- B      7, 14, 21, 28
- C      36, 43, 50, 64
- D      78, 85, 92, 99



**Solution: B**

We can see that all four of the numbers given in answer choice B are multiples of 7.

$$7 \cdot 1 = 7$$

$$7 \cdot 2 = 14$$

$$7 \cdot 3 = 21$$

$$7 \cdot 4 = 28$$



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**Question:** Choose the number that's a multiple of both 4 and 8.

**Answer choices:**

A      2

B      4

C      1

D      8



**Solution: D**

Notice that 8 is a multiple of 4, because  $4 \cdot 2 = 8$ , but 4 isn't a multiple of 8. Also, 8 is a multiple of 8, because  $8 \cdot 1 = 8$ . Furthermore, neither 1 nor 2 is a multiple of 4 or a multiple of 8. So D is the correct answer choice.



**Topic: Multiples**

**Question:** Choose the common multiple of 6 and 18.

**Answer choices:**

- A      6
- B      2
- C      12
- D      18



**Solution: D**

The first few multiples of 6 are

$$6 \cdot 1 = 6$$

$$6 \cdot 2 = 12$$

$$6 \cdot 3 = 18$$

$$6 \cdot 4 = 24$$

The first few multiples of 18 are

$$18 \cdot 1 = 18$$

$$18 \cdot 2 = 36$$

$$18 \cdot 3 = 54$$

$$18 \cdot 4 = 72$$

These lists have 18 in common, and 18 is one of the answer choices, so D is the correct answer choice.

