



Factors and Multiples

Answer Key

1) Answer: D

Explanation: 3, 27, and 9 are all factors of 81. They can be multiplied to another number to obtain 81.

$$3 \times 27 = 81$$

$$27 \times 3 = 81$$

$$9 \times 9 = 81$$

You can also try to divide 81 by 3, 27, and 9. Notice that if you divide 81 by any of these numbers, there is no remainder. Hence, these numbers are divisible by 9.

2) Answer: A

Explanation: Let's use the listing method to determine the GCF of 35 and 70:

- **Factors of 35:** 1, 5, 7, 35
- **Factors of 70:** 1, 2, 5, 7, 10, 35, 70

The common factors of 35 and 70 are 5, 7, and 35. The largest among the common factors is 35. Hence, the GCF of 35 and 70 is 35.

3) Answer: D

Explanation: Since when you multiply $m \times n$ the result is 450, then m and n are factors of 450. It follows that m must be a factor of 450. 90, 45, and 15 are all factors of 450 since:

$$90 \times 5 = 450$$

$$45 \times 10 = 450$$

$$15 \times 30 = 450$$

4) Answer: C

Explanation: Let us list the multiples of 18 and 54:

- **Multiples of 18** - 18, 36, 54, 72, ...
- **Multiples of 54** - 54, 108, 162, ...

The common factor of 18 and 54 according to our lists is 54. Hence, the LCM of 18 and 54 must be 54.



To get more Mathematics review materials, visit
<https://filipiknow.net/basic-math/>

To God be the glory!



Factors and Multiples

Answer Key

5) Answer: C

Explanation: The smallest even number that is also a prime number is 2 since 2 has only two factors: 1 and itself. Furthermore, take note that 2 is the only even number that is also a prime number (all even numbers except 2 are composite numbers).



To get more Mathematics review
materials, visit
<https://filipiknow.net/basic-math/>

To God be the glory!