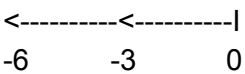


Lesson 1-6: Multiply Integers

- If the factors have different signs, the product is negative. If the factors have the same sign, the product is positive.
- Negative; Sample answer: The product of the first two negative integers is positive. The product of that positive integer and the third negative integer is negative.
- Sample answer: When you multiply a negative number by -1 , the product will be the opposite of the negative number.
 $(-1)(-1) = -(-1)$ because the opposite of -1 is 1 .
- Yes; the Commutative Property of Multiplication says that you can change the order of the factors when multiplying. Since the factors are the same, the product is the same.
- 

<-----<-----|
-6 -3 0
- B, D
- 36
 - 84
 - 64
 - 135
- $2 \times (-600) = -1,200$
- 12
- 32
- 35
- 10
- 24
- 90
- 18
- 41
 - Sample answer: Using the definition of the additive inverse, $-1 + 1 = 0$. Using the Zero Property of Multiplication, $-41 \times (-1 + 1) = 0$. Using the Distributive Property, $-41 \times (-1) + (-41) \times 1 = 0$. Using the Identity Property of Multiplication, $-41 \times (-1) + (-41) = 0$. So, $-41 \times (-1)$ must equal 41.
- 80
 - Sample answer: He may have forgotten to include the negative sign after finding the product of the first 2 numbers.
- $24 < 56$, so $(-7) \times (-8)$ is greater.
- 54
- 48
 - 48
 - Sample answer: The integer for the withdrawals is negative. The integer for the deposits is the opposite.
- Equipment elevator: -168 feet
Elevator for miners: -210; The elevator for miners is 42 feet deeper.
- $-35 \times 2 = -70$
- A, D, E