

1. Suppose a and b are even. What can we say about their sum $a+b$?

1 / 1 point

- ☒ $a+b$ is even
- ☐ $a+b$ is odd
- ☐ Both cases are possible

✓ **Correct**

This is correct! If numbers are divisible by 2, their sum is divisible by 2 as well

2. Suppose a is even and b is odd. What can we say about their sum $a+b$?

1 / 1 point

- ☐ $a+b$ is even
- ☒ $a+b$ is odd
- ☐ Both cases are possible

✓ **Correct**

This is correct! If exactly one of two numbers is not divisible by 2, their sum is not divisible by 2

3. Suppose a and b are odd. What can we say about their sum $a+b$?

1 / 1 point

- ☒ $a+b$ is even
- ☐ $a+b$ is odd
- ☐ Both cases are possible

✓ **Correct**

This is correct! The sum of two numbers that are not divisible by 2, is divisible by 2

4. Suppose a and b are even. What can we say about their product $a \times b$?

1 / 1 point

- ☒ $a \times b$ is even
- ☐ $a \times b$ is odd
- ☐ Both cases are possible

✓ **Correct**

This is correct! If numbers are divisible by 2, their product is divisible by 2 as well

5. Suppose a is even and b is odd. What can we say about their product $a \times b$?

- ☒ $a \times b$ is even
- ☐ $a \times b$ is odd
- ☐ Both cases are possible

✓ **Correct**

This is correct! If at least one of two numbers is divisible by 2, their product is divisible by 2 as well

6. Suppose a and b are odd. What can we say about their product $a \times b$?

☐ $a \times b$ is even

☒ $a \times b$ is odd

☐ Both cases are possible

☒ **Correct**

This is correct! If both numbers are not divisible by 2, their product is not divisible by 2