



The Obsidian Chamber Code

Calculate the numerical value of each Minecraft block to solve the final redstone equation and unlock the chest.

Name: _____ Date: _____

1 THE KEY

$$\text{⚡} = 3 \quad \text{?} = \square \quad \blacksquare = 8 \quad \text{?} = \square \quad \star = 13 \quad \text{☾} = \square$$

Every symbol is a whole number from 1 to 15. A number in front of a shape means multiply: 2 stars = 2 x star.

2 FIND THE MISSING VALUES

Some shapes in the key are missing. Use these to work them out, in order, and write them into the key.

$$\text{☾} \times \text{⚡} = 36$$

$$3 \text{♥} = 33$$

$$\star - \bullet = 6$$

3 CRACK THESE

$$1. \blacksquare \times \text{♥} - \bullet = \square$$

$$2. (\star - \text{☾}) \times \text{⚡} = \square$$

CODE 1

$$3. \text{♥} \times \blacksquare = \square$$

$$4. \blacksquare \times \bullet = \square$$

CODE 2

$$5. 10\star - \bullet = \square$$

$$6. 10\blacksquare - \text{☾} = \square$$

CODE 3

$$7. \bullet \times \text{⚡} + \text{♥} = \square$$

$$8. (\text{☾} - \text{♥}) \times \text{⚡} = \square$$

CODE 4

$$9. 3\bullet + 2\text{⚡} = \square$$

$$10. 3\star + 2\text{☾} = \square$$

4 THE VAULT CODE

Write the ONES digit of your answers to problems 2, 4, 6, 8 (the ones tagged CODE 1-4), in that order. That opens the obsidian chest sealed.

Answer Key

The Obsidian Chamber Code · Grade 4 Crack the Code

The key

⚡ lightning bolt = **3** ● circle = **7** (hidden) ■ square = **8** ♥ heart = **11** (hidden) ★ star = **13**
 ☾ moon = **12** (hidden)

Every symbol is a whole number from 1 to 15.

- | | |
|---|------------|
| 1. ■ × ♥ - ● (square x heart - circle) | 81 |
| 2. (★ - ☾) × ⚡ ((star - moon) x lightning bolt) | 3 |
| 3. ♥ × ■ (heart x square) | 88 |
| 4. ■ × ● (square x circle) | 56 |
| 5. 10★ - ● (10 x star - circle) | 123 |
| 6. 10■ - ☾ (10 x square - moon) | 68 |
| 7. ● × ⚡ + ♥ (circle x lightning bolt + heart) | 32 |
| 8. (☾ - ♥) × ⚡ ((moon - heart) x lightning bolt) | 3 |
| 9. 3● + 2⚡ (3 x circle + 2 x lightning bolt) | 27 |
| 10. 3★ + 2☾ (3 x star + 2 x moon) | 63 |

Vault code: **3 6 8 3**