



Crack the Vault Code

Someone locked the vault with a 4-digit code. Work out what each shape is worth and crack it.

Name: _____ Date: _____

1 THE KEY

$$\text{Crescent Moon} = 9 \quad \text{Triangle} = 6 \quad \text{Lightning Bolt} = 4 \quad \text{Hexagon} = 8$$

Every symbol is a whole number from 1 to 9.

2 CRACK THESE

1. $\text{Crescent Moon} + \text{Lightning Bolt} = \boxed{}$

2. $16 - \text{Hexagon} = \boxed{}$

CODE 1

3. $11 - \text{Lightning Bolt} = \boxed{}$

4. $\text{Hexagon} + 2 = \boxed{}$

CODE 2

5. $\text{Hexagon} - \text{Triangle} = \boxed{}$

6. $\text{Triangle} + \text{Lightning Bolt} = \boxed{}$

CODE 3

7. $\text{Crescent Moon} + 2 = \boxed{}$

8. $\text{Crescent Moon} - \text{Triangle} = \boxed{}$

CODE 4

9. $\boxed{} + \text{Triangle} = 15$ Draw the shape:

10. $\text{Crescent Moon} + \boxed{} = 17$ Draw the shape:

3 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 vault.

Answer Key

Crack the Vault Code · Grade 1 Crack the Code

The key

☾ moon = 9 ▲ triangle = 6 ⚡ lightning bolt = 4 ⬡ hexagon = 8

Every symbol is a whole number from 1 to 9.

- | | | |
|-----|-----------------------------------|---------|
| 1. | ☾ + ⚡ (moon + lightning bolt) | 13 |
| 2. | 16 - ⬡ (16 - hexagon) | 8 |
| 3. | 11 - ⚡ (11 - lightning bolt) | 7 |
| 4. | ⬡ + 2 (hexagon + 2) | 10 |
| 5. | ⬡ - ▲ (hexagon - triangle) | 2 |
| 6. | ▲ + ⚡ (triangle + lightning bolt) | 10 |
| 7. | ☾ + 2 (moon + 2) | 11 |
| 8. | ☾ - ▲ (moon - triangle) | 3 |
| 9. | ☐ + ▲ = 15 (? + triangle) | moon |
| 10. | ☾ + ☐ = 17 (moon + ?) | hexagon |

Vault code: 8003