

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

 = 10
  = 6
  = 3
  = 8
  = 4

Every symbol is a whole number from 1 to 10. A number in front of a shape means multiply: 2 stars = 2 x star.

2 CRACK THESE

1. $2 \square = \square$

2. $2 \bullet + 2 \blacklozenge = \square$

CODE 1

3. $2 \square + \bullet = \square$

4. $\text{crescent moon} + \blacklozenge + \blacklozenge = \square$

CODE 2

5. $2 \square + 2 \blacklozenge = \square$

6. $2 \blacklozenge - \square = \square$

CODE 3

7. $3 \blacklozenge - \text{crescent moon} = \square$

8. $2 \blacklozenge = \square$

CODE 4

9. $\square + \text{crescent moon} = 13$ Draw the shape:

10. $\text{crescent moon} + \square = 7$ 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 2 Crack the Code

The key

■ square = 10 ● circle = 6 ☾ moon = 3 ◆ diamond = 8 ⬠ pentagon = 4

Every symbol is a whole number from 1 to 10.

- | | | |
|-----|---------------------------------------|----------|
| 1. | 2■ (2 x square) | 20 |
| 2. | 2● + 2⬠ (2 x circle + 2 x pentagon) | 20 |
| 3. | 2■ + ● (2 x square + circle) | 26 |
| 4. | ☾ + ◆ + ⬠ (moon + diamond + pentagon) | 15 |
| 5. | 2■ + 2⬠ (2 x square + 2 x pentagon) | 28 |
| 6. | 2◆ - ■ (2 x diamond - square) | 6 |
| 7. | 3◆ - ☾ (3 x diamond - moon) | 21 |
| 8. | 2⬠ (2 x pentagon) | 8 |
| 9. | □ + ☾ = 13 (? + moon) | square |
| 10. | ☾ + □ = 7 (moon + ?) | pentagon |

Vault code: 0 5 6 8