



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  = 1  = 4  = 6  = 5

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. $3 \times \text{hexagon} = \boxed{}$

2. $3 \times \text{diamond} = \boxed{}$

CODE 1

3. $2 \times \text{diamond} + 2 \times \text{square} = \boxed{}$

4. $3 \times \text{hexagon} - \text{diamond} = \boxed{}$

CODE 2

5. $\text{circle} + \text{diamond} = \boxed{}$

6. $2 \times \text{diamond} = \boxed{}$

CODE 3

7. $\text{hexagon} + 2 \times \text{diamond} = \boxed{}$

8. $2 \times \text{circle} = \boxed{}$

CODE 4

9. $\text{hexagon} + \boxed{} = 10$ Draw the shape: 

10. $\text{circle} + \boxed{} = 11$ Draw the shape: 

3 THE VAULT CODE

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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

○ ring = 10 ◆ diamond = 1 ⬡ hexagon = 4 ■ square = 6 ⚡ lightning bolt = 5

Every symbol is a whole number from 1 to 10.

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|-----|------------------------------------|---------|
| 1. | 3⬡ (3 x hexagon) | 12 |
| 2. | 3◆ (3 x diamond) | 3 |
| 3. | 2◆ + 2■ (2 x diamond + 2 x square) | 14 |
| 4. | 3⬡ - ◆ (3 x hexagon - diamond) | 11 |
| 5. | ○ + ◆ (ring + diamond) | 11 |
| 6. | 2◆ (2 x diamond) | 2 |
| 7. | ⬡ + 2◆ (hexagon + 2 x diamond) | 6 |
| 8. | 2○ (2 x ring) | 20 |
| 9. | ⬡ + □ = 10 (hexagon + ?) | square |
| 10. | ○ + □ = 11 (ring + ?) | diamond |

Vault code: **3 1 2 0**