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

◆ = 3 ○ = 4 ■ = 2 ⬟ = 7

Every symbol is a whole number from 1 to 9.

2 CRACK THESE

1. ⬟ + ■ + ○ = ☐

2. 10 - ○ = ☐ CODE 1

3. ■ + ◆ + ⬟ = ☐

4. 15 - ⬟ = ☐ CODE 2

5. ■ + 2 = ☐

6. ■ + ⬟ = ☐ CODE 3

7. ○ + 1 = ☐

8. ○ + ■ = ☐ CODE 4

9. ○ + ☐ = 7 Draw the shape: ☐

10. ⬟ + ☐ = 9 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.

TEACHER / PARENT

Answer Key

Crack the Vault Code · Grade 1 Crack the Code

The key

◆ diamond = **3** ○ ring = **4** ■ square = **2** ⬟ pentagon = **7**

Every symbol is a whole number from 1 to 9.

1.	⬟ + ■ + ○ (pentagon + square + ring)	**13**
2.	**10** - ○ (10 - ring)	**6**
3.	■ + ◆ + ⬟ (square + diamond + pentagon)	**12**
4.	**15** - ⬟ (15 - pentagon)	**8**
5.	■ + **2** (square + 2)	**4**
6.	■ + ⬟ (square + pentagon)	**9**
7.	○ + **1** (ring + 1)	**5**
8.	○ + ■ (ring + square)	**6**
9.	○ + ▢ = 7 (ring + ?)	**diamond**
10.	⬟ + ▢ = 9 (pentagon + ?)	**square**

Vault code: **6 8 9 6**