

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

$$+ = 1 \quad \text{☾} = 8 \quad \blacktriangle = 7 \quad \bullet = 4$$

Every symbol is a whole number from 1 to 9.

2 CRACK THESE

1. $\bullet + 2 = \square$

2. $11 - \blacktriangle = \square$

CODE 1

3. $\blacktriangle + \text{☾} + \bullet = \square$

4. $\bullet + \blacktriangle = \square$

CODE 2

5. $\blacktriangle + \text{☾} = \square$

6. $\blacktriangle - + = \square$

CODE 3

7. $\blacktriangle - \bullet = \square$

8. $+ + \bullet + \text{☾} = \square$

CODE 4

9. $\square + \text{☾} = 12$ Draw the shape: $\square$

10. $+ + \square = 9$ Draw the shape: $\square$

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

+ cross = **1** **☾** moon = **8** **▲** triangle = **7** **●** circle = **4**

Every symbol is a whole number from 1 to 9.

1. **●** + **2** (circle + 2) **6**
2. **11** - **▲** (11 - triangle) **4**
3. **▲** + **☾** + **●** (triangle + moon + circle) **19**
4. **●** + **▲** (circle + triangle) **11**
5. **▲** + **☾** (triangle + moon) **15**
6. **▲** - **+** (triangle - cross) **6**
7. **▲** - **●** (triangle - circle) **3**
8. **+** + **●** + **☾** (cross + circle + moon) **13**
9. **☐** + **☾** = 12 (? + moon) **circle**
10. **+** + **☐** = 9 (cross + ?) **moon**

Vault code: 4 1 6 3