



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

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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 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