

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

$$\text{☾} = 4 \quad \bullet = 1 \quad \blacktriangle = 7 \quad + = 10 \quad \star = 5$$

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. $+ + \text{☾} - \blacktriangle = \boxed{}$

2. $3\blacktriangle = \boxed{}$

CODE 1

3. $3\bullet = \boxed{}$

4. $3+ - \star = \boxed{}$

CODE 2

5. $2\text{☾} + 2+ = \boxed{}$

6. $\text{☾} + + = \boxed{}$

CODE 3

7. $+ + 2\bullet = \boxed{}$

8. $2\text{☾} - \star = \boxed{}$

CODE 4

9. $\bullet + \boxed{} = 6$ Draw the shape:

10. $\boxed{} + \star = 12$ 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

☾ moon = 4 ● circle = 1 ▲ triangle = 7 + cross = 10 ★ star = 5

Every symbol is a whole number from 1 to 10.

- | | | |
|-----|---|----------|
| 1. | $+ + \text{☾} - \text{▲}$ (cross + moon - triangle) | 7 |
| 2. | 3▲ (3 x triangle) | 21 |
| 3. | 3● (3 x circle) | 3 |
| 4. | $3+ - \text{★}$ (3 x cross - star) | 25 |
| 5. | $2\text{☾} + 2+$ (2 x moon + 2 x cross) | 28 |
| 6. | $\text{☾} + +$ (moon + cross) | 14 |
| 7. | $+ + 2\text{●}$ (cross + 2 x circle) | 12 |
| 8. | $2\text{☾} - \text{★}$ (2 x moon - star) | 3 |
| 9. | $\text{●} + \square = 6$ (circle + ?) | star |
| 10. | $\square + \text{★} = 12$ (? + star) | triangle |

Vault code: **1 5 4 3**