

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

 = 2
  = 9
  = 1
  = 8

Every symbol is a whole number from 1 to 9.

2 CRACK THESE

1. $16 - \text{pentagon} = \boxed{}$

2. $\text{pentagon} + \text{plus} = \boxed{}$

CODE 1

3. $\text{pentagon} + 1 = \boxed{}$

4. $\text{pentagon} + \text{circle} = \boxed{}$

CODE 2

5. $17 - \text{plus} = \boxed{}$

6. $\text{circle} + 6 = \boxed{}$

CODE 3

7. $\text{plus} + \text{pentagon} + \text{circle} = \boxed{}$

8. $\text{pentagon} + \text{crescent moon} + \text{plus} = \boxed{}$

CODE 4

9. $\text{circle} + \boxed{} = 17$ Draw the shape: 

10. $\boxed{} + \text{circle} = 10$ 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 1 Crack the Code

The key

 pentagon = 2
  circle = 9
  cross = 1
  moon = 8

Every symbol is a whole number from 1 to 9.

- | | | |
|-----|--|-------|
| 1. | $16 - \text{pentagon}$ | 14 |
| 2. | $\text{pentagon} + \text{cross}$ | 3 |
| 3. | $\text{pentagon} + 1$ | 3 |
| 4. | $\text{pentagon} + \text{circle}$ | 11 |
| 5. | $17 - \text{cross}$ | 16 |
| 6. | $\text{circle} + 6$ | 15 |
| 7. | $\text{cross} + \text{pentagon} + \text{circle}$ | 12 |
| 8. | $\text{pentagon} + \text{moon} + \text{cross}$ | 11 |
| 9. | $\text{circle} + \square = 17$ (circle + ?) | moon |
| 10. | $\square + \text{circle} = 10$ (? + circle) | cross |

Vault code: **3 1 5 1**