

Unicorn Valley Cipher

Find the hidden number for each star, crown, and rainbow to crack the code and unlock the star-dust chest.

Name: _____ Date: _____

1 THE KEY

$$\triangle = 7 \quad \text{pentagon} = 4 \quad + = 6 \quad \text{crescent} = 9 \quad \star = 3$$

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. $\text{crescent} + \text{pentagon} = \boxed{}$

2. $\triangle + + - \text{crescent} = \boxed{}$

CODE 1

3. $\star + \text{pentagon} - + = \boxed{}$

4. $\text{pentagon} + 2\triangle = \boxed{}$

CODE 2

5. $3+ = \boxed{}$

6. $2+ + \triangle = \boxed{}$

CODE 3

7. $2\text{pentagon} = \boxed{}$

8. $2\text{crescent} + \text{pentagon} = \boxed{}$

CODE 4

9. $\boxed{} + \text{pentagon} = 10$ Draw the shape:

10. $+ + \boxed{} = 13$ 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 star-dust chest.

Answer Key

Unicorn Valley Cipher · Grade 2 Crack the Code

The key

▲ triangle = 7 ⬠ pentagon = 4 + cross = 6 ☾ moon = 9 ★ star = 3

Every symbol is a whole number from 1 to 10.

- | | | |
|-----|-------------------------------------|----------|
| 1. | ☾ + ⬠ (moon + pentagon) | 13 |
| 2. | ▲ + + - ☾ (triangle + cross - moon) | 4 |
| 3. | ★ + ⬠ - + (star + pentagon - cross) | 1 |
| 4. | ⬠ + 2▲ (pentagon + 2 x triangle) | 18 |
| 5. | 3+ (3 x cross) | 18 |
| 6. | 2+ + ▲ (2 x cross + triangle) | 19 |
| 7. | 2⬠ (2 x pentagon) | 8 |
| 8. | 2☾ + ⬠ (2 x moon + pentagon) | 22 |
| 9. | □ + ⬠ = 10 (? + pentagon) | cross |
| 10. | + + □ = 13 (cross + ?) | triangle |

Vault code: **4 8 9 2**