

Starlight Meadow Jewel Hunt

Help Princess Starbeam the unicorn find the missing magic code to open her crystal prism chest by solving the shape equations.

Name: _____ Date: _____

1 THE KEY

$$\star = 1 \quad \blacklozenge = 10 \quad \blacksquare = 9 \quad \mathbf{+} = 3 \quad \blacklozenge = 7$$

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. $3\blacksquare - \star = \boxed{}$

2. $2\blacklozenge = \boxed{}$

CODE 1

3. $2\blacklozenge - \mathbf{+} = \boxed{}$

4. $\star + \blacklozenge = \boxed{}$

CODE 2

5. $2\blacklozenge + 2\star = \boxed{}$

6. $\blacklozenge - \mathbf{+} = \boxed{}$

CODE 3

7. $2\blacksquare - \blacklozenge = \boxed{}$

8. $2\blacksquare + 2\mathbf{+} = \boxed{}$

CODE 4

9. $\boxed{} + \blacklozenge = 16$ Draw the shape:

10. $\blacksquare + \boxed{} = 19$ 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 crystal prism chest.

Answer Key

Starlight Meadow Jewel Hunt · Grade 2 Crack the Code

The key

★ star = 1 ⬠ pentagon = 10 ■ square = 9 + cross = 3 ◆ diamond = 7

Every symbol is a whole number from 1 to 10.

- | | | |
|-----|-----------------------------------|----------|
| 1. | 3■ - ★ (3 x square - star) | 26 |
| 2. | 2◆ (2 x diamond) | 14 |
| 3. | 2◆ - + (2 x diamond - cross) | 11 |
| 4. | ★ + ◆ (star + diamond) | 8 |
| 5. | 2⬠ + 2★ (2 x pentagon + 2 x star) | 22 |
| 6. | ◆ - + (diamond - cross) | 4 |
| 7. | 2■ - ◆ (2 x square - diamond) | 11 |
| 8. | 2■ + 2+ (2 x square + 2 x cross) | 24 |
| 9. | □ + ◆ = 16 (? + diamond) | square |
| 10. | ■ + □ = 19 (square + ?) | pentagon |

Vault code: **4 8 4 4**