



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

★ = 1 ⬠ = 10 ■ = 9 + = 3 ◆ = 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. $3 \blacksquare - \star = \square$

2. $2 \blacklozenge = \square$

CODE 1

3. $2 \blacklozenge - + = \square$

4. $\star + \blacklozenge = \square$

CODE 2

5. $2 \blacklozenge + 2 \star = \square$

6. $\blacklozenge - + = \square$

CODE 3

7. $2 \blacksquare - \blacklozenge = \square$

8. $2 \blacksquare + 2 + = \square$

CODE 4

9. $\square + \blacklozenge = 16$ Draw the shape:

10. $\blacksquare + \square = 19$ 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. | $3 \blacksquare - \star$ (3 x square - star) | 26 |
| 2. | $2 \blacklozenge$ (2 x diamond) | 14 |
| 3. | $2 \blacklozenge - +$ (2 x diamond - cross) | 11 |
| 4. | $\star + \blacklozenge$ (star + diamond) | 8 |
| 5. | $2 \blacksquare + 2 \star$ (2 x pentagon + 2 x star) | 22 |
| 6. | $\blacklozenge - +$ (diamond - cross) | 4 |
| 7. | $2 \blacksquare - \blacklozenge$ (2 x square - diamond) | 11 |
| 8. | $2 \blacksquare + 2 +$ (2 x square + 2 x cross) | 24 |
| 9. | $\square + \blacklozenge = 16$ (? + diamond) | square |
| 10. | $\blacksquare + \square = 19$ (square + ?) | pentagon |

Vault code: **4 8 4 4**