



Savannah Canopy Code Breaker

Solve the equations by figuring out which numbers are hidden behind the spots and leaves to discover the four-digit code.

Name: _____ Date: _____

1 THE KEY

$$\triangle = \square \quad \hexagon = \square \quad \text{⚡} = 10 \quad \text{☾} = 2 \quad \text{+} = 7 \quad \bullet = 5$$

Every symbol is a whole number from 1 to 12. A number in front of a shape means multiply: 2 stars = 2 x star.

2 FIND THE MISSING VALUES

Some shapes in the key are missing. Use these to work them out, in order, and write them into the key.

$$3 \bullet = 27$$

$$\bullet - \blacktriangle = 1$$

3 CRACK THESE

$$1. \ 5 \bullet - \text{⚡} = \square$$

$$2. \ \text{☾} \times \text{+} + \blacktriangle = \square$$

CODE 1

$$3. \ \blacktriangle \times \text{⚡} = \square$$

$$4. \ 3 \hexagon - \bullet = \square$$

CODE 2

$$5. \ \text{☾} \times \bullet = \square$$

$$6. \ \text{⚡} + \text{+} + \hexagon = \square$$

CODE 3

$$7. \ 10 \text{⚡} + \text{+} = \square$$

$$8. \ \hexagon + \text{☾} + \bullet = \square$$

CODE 4

$$9. \ \text{+} \times \blacktriangle - \text{☾} = \square$$

$$10. \ 5 \text{☾} - \hexagon = \square$$

4 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 supply chest containing.

Answer Key

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The key

 triangle = 4 (hidden)
  hexagon = 9 (hidden)
  lightning bolt = 10
  moon = 2
  cross = 7
 circle = 5

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|--|-----|
| 1. | $5 \bullet - \text{lightning bolt}$ (5 x circle - lightning bolt) | 15 |
| 2. | $\text{moon} \times \text{cross} + \text{triangle}$ (moon x cross + triangle) | 18 |
| 3. | $\text{triangle} \times \text{lightning bolt}$ (triangle x lightning bolt) | 40 |
| 4. | $3 \text{ hexagon} - \text{circle}$ (3 x hexagon - circle) | 22 |
| 5. | $\text{moon} \times \text{circle}$ (moon x circle) | 10 |
| 6. | $\text{lightning bolt} + \text{cross} + \text{hexagon}$ (lightning bolt + cross + hexagon) | 26 |
| 7. | $10 \text{ lightning bolt} + \text{cross}$ (10 x lightning bolt + cross) | 107 |
| 8. | $\text{hexagon} + \text{moon} + \text{circle}$ (hexagon + moon + circle) | 16 |
| 9. | $\text{cross} \times \text{triangle} - \text{moon}$ (cross x triangle - moon) | 26 |
| 10. | $5 \text{ moon} - \text{hexagon}$ (5 x moon - hexagon) | 1 |

Vault code: **8 2 6 6**