Mystery of the Croatoan Chest

Solve the symbol equations to reveal the four-digit code that unlocks Governor John White's lost wooden supply chest.

Name: _____ **Date:** _____

1 THE KEY

⬟ = 10 ■ = 11 ● = 2 ★ = 4 ϟ = ☐ ⬢? = ☐

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.

⬢ + ⬢ = 14

ϟ + ϟ = 12

3 CRACK THESE

1. ★ × ● - ϟ = ☐
2. 3⬟ - ⬢ = ☐ CODE 1
3. ⬢ + ■ + ϟ = ☐
4. 5ϟ - ● = ☐ CODE 2
5. ϟ × ⬢ - ■ = ☐
6. 5★ - ϟ = ☐ CODE 3
7. ⬢ × ■ + ⬟ = ☐
8. ϟ × ● = ☐ CODE 4
9. 2● + ■ = ☐
10. ϟ × ⬢ = ☐

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 governor whites lost.

TEACHER / PARENT

Answer Key

Mystery of the Croatoan Chest · Grade 3 Crack the Code

The key

pentagon = **10** square = **11** circle = **2** star = **4** lightning bolt = **6** (hidden)

hexagon = **7** (hidden)

Every symbol is a whole number from 1 to 12.

1. ★ × ● - ϟ (star x circle - lightning bolt) **2**
2. 3⬟ - ⬢ (3 x pentagon - hexagon) **23**
3. ⬢ + ■ + ϟ (hexagon + square + lightning bolt) **24**
4. 5ϟ - ● (5 x lightning bolt - circle) **28**
5. ϟ × ⬢ - ■ (lightning bolt x hexagon - square) **31**
6. 5★ - ϟ (5 x star - lightning bolt) **14**
7. ⬢ × ■ + ⬟ (hexagon x square + pentagon) **87**
8. ϟ × ● (lightning bolt x circle) **12**
9. 2● + ■ (2 x circle + square) **15**
10. ϟ × ⬢ (lightning bolt x hexagon) **42**

Vault code: **3 8 4 2**