Crack the Vault Code

Someone locked the vault with a 4-digit code. Work out what each shape is worth and crack it.

Name: _____ **Date:** _____

1 THE KEY



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.



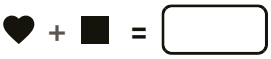


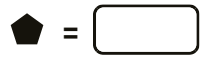
3 CRACK THESE

1. 

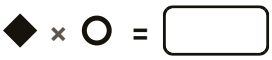
2. 

CODE 1

3. 

4. 

CODE 2

5. 

6. 

CODE 3

7. 

8. 

CODE 4

9. 

10. 

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 vault.

TEACHER / PARENT

Answer Key

Crack the Vault Code · Grade 3 Crack the Code

The key

pentagon = **5** diamond = **11** circle = **7** heart = **12** (hidden) ring = **9**

square = **4** (hidden)

Every symbol is a whole number from 1 to 12.

1. ● × ■ + ○ (circle x square + ring) **37**
2. ● × ○ + ♥ (circle x ring + heart) **75**
3. **2**♥ + ■ (2 x heart + square) **28**
4. **10**○ + ⬟ (10 x ring + pentagon) **95**
5. ◆ × ○ (diamond x ring) **99**
6. **5**⬟ - ■ (5 x pentagon - square) **21**
7. **10**○ + ■ (10 x ring + square) **94**
8. **5**○ - ♥ (5 x ring - heart) **33**
9. ♥ × ■ - ◆ (heart x square - diamond) **37**
10. ■ × ○ - ⬟ (square x ring - pentagon) **31**

Vault code: 5 5 1 3