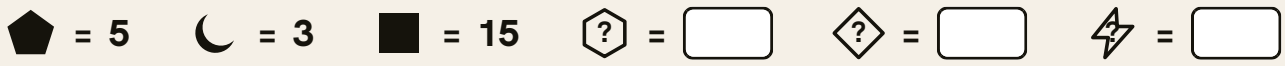
Spooky Mansion Vault Code

Solve the Halloween math equations to discover the hidden numbers and unlock the witch's secret potion safe.

Name: _____ **Date:** _____

1 THE KEY



Every symbol is a whole number from 1 to 15. A number in front of a shape means multiply: 2 stars = 2 x star.

2 FIND THE MISSING VALUES

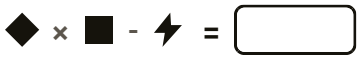
Some shapes in the key are missing. Use these to work them out, in order, and write them into the key.

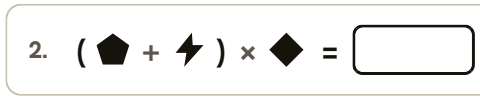






3 CRACK THESE

1. 

2. 

CODE 1

3. 

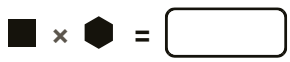
4. 

CODE 2

5. 

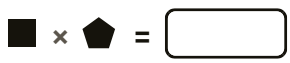
6. 

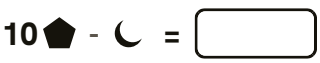
CODE 3

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 witchs potion safe.

TEACHER / PARENT

Answer Key

Spooky Mansion Vault Code · Grade 4 Crack the Code

The key

pentagon = **5** moon = **3** square = **15** hexagon = **7** (hidden) diamond = **9** (hidden)

lightning bolt = **13** (hidden)

Every symbol is a whole number from 1 to 15.

1.	◆ × ■ - ⚡ (diamond x square - lightning bolt)	**122**
2.	(⬟ + ⚡) × ◆ ((pentagon + lightning bolt) x diamond)	**162**
3.	(⬟ + ◆) × ■ ((pentagon + diamond) x square)	**210**
4.	☾ × ⬢ - ◆ (moon x hexagon - diamond)	**12**
5.	**3**◆ + **2**⬟ (3 x diamond + 2 x pentagon)	**37**
6.	**100**⚡ + ⬟ (100 x lightning bolt + pentagon)	**1305**
7.	■ × ⬢ (square x hexagon)	**105**
8.	**3**■ + **2**◆ (3 x square + 2 x diamond)	**63**
9.	■ × ⬟ (square x pentagon)	**75**
10.	**10**⬟ - ☾ (10 x pentagon - moon)	**47**

Vault code: **2 2 5 3**