

The Obsidian Chest Cipher

Find the missing numbers hidden behind the Minecraft block shapes to solve the math equations and reveal the four-digit code for the obsidian vault.

Name: _____ Date: _____

1 THE KEY

 = 7
  = 1
  = 2
  = 5
  = 6

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. $2 \times \text{hexagon} - \text{diamond} = \boxed{}$

2. $2 \times \text{diamond} + 2 \times \text{hexagon} = \boxed{}$

CODE 1

3. $\text{hexagon} + 2 \times \text{pentagon} = \boxed{}$

4. $2 \times \text{plus} + 2 \times \text{pentagon} = \boxed{}$

CODE 2

5. $2 \times \text{diamond} + \text{hexagon} = \boxed{}$

6. $\text{pentagon} - \text{plus} = \boxed{}$

CODE 3

7. $\text{diamond} + 2 \times \text{plus} = \boxed{}$

8. $3 \times \text{triangle} - \text{diamond} = \boxed{}$

CODE 4

9. $\boxed{} + \text{triangle} = 9$ Draw the shape:

10. $\boxed{} + \text{pentagon} = 13$ 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 obsidian vault containing.

Answer Key

The Obsidian Chest Cipher · Grade 2 Crack the Code

The key

▲ triangle = 7 ⬡ hexagon = 1 ◆ diamond = 2 + cross = 5 ⬠ pentagon = 6

Every symbol is a whole number from 1 to 10.

1. $2\text{⬡} - \text{◆}$ (2 x hexagon - diamond) 0
2. $2\text{◆} + 2\text{⬡}$ (2 x diamond + 2 x hexagon) 6
3. $\text{⬡} + 2\text{⬠}$ (hexagon + 2 x pentagon) 13
4. $2\text{+} + 2\text{⬠}$ (2 x cross + 2 x pentagon) 22
5. $2\text{◆} + \text{⬡}$ (2 x diamond + hexagon) 5
6. $\text{⬠} - \text{+}$ (pentagon - cross) 1
7. $\text{◆} + 2\text{+}$ (diamond + 2 x cross) 12
8. $3\text{▲} - \text{◆}$ (3 x triangle - diamond) 19
9. $\square + \text{▲} = 9$ (? + triangle) diamond
10. $\square + \text{⬠} = 13$ (? + pentagon) triangle

Vault code: **6 2 1 9**