



The Obsidian Fossil Vault

Solve the blocky math equations to crack the redstone lock and open the reinforced chamber protecting the prehistoric dinosaur egg.

Name: _____ Date: _____

1 THE KEY

$$\blacksquare = 9 \quad \blacklozenge = 2 \quad \blacktriangle = 3 \quad \blackhexagon = 10 \quad \blackpentagon = 6$$

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. $\blackhexagon + 2\blacklozenge = \boxed{}$

2. $2\blackpentagon - \blackhexagon = \boxed{}$

CODE 1

3. $\blacktriangle + \blacklozenge + \blackpentagon = \boxed{}$

4. $\blackpentagon + \blackhexagon - \blacksquare = \boxed{}$

CODE 2

5. $\blackpentagon - \blacklozenge = \boxed{}$

6. $3\blacksquare - \blackpentagon = \boxed{}$

CODE 3

7. $\blacktriangle + \blacksquare + \blacklozenge = \boxed{}$

8. $\blacklozenge + \blacksquare = \boxed{}$

CODE 4

9. $\boxed{} + \blacksquare = 11$ Draw the shape:

10. $\boxed{} + \blacklozenge = 12$ 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 chest wrapped.

Answer Key

The Obsidian Fossil Vault · Grade 2 Crack the Code

The key

 square = 9
  diamond = 2
  triangle = 3
  hexagon = 10
  pentagon = 6

Every symbol is a whole number from 1 to 10.

1.  + 2  (hexagon + 2 x diamond) 14
2. 2  -  (2 x pentagon - hexagon) 2
3.  +  +  (triangle + diamond + pentagon) 11
4.  +  -  (pentagon + hexagon - square) 7
5.  -  (pentagon - diamond) 4
6. 3  -  (3 x square - pentagon) 21
7.  +  +  (triangle + square + diamond) 14
8.  +  (diamond + square) 11
9.  +  = 11 (? + square) diamond
10.  +  = 12 (? + diamond) hexagon

Vault code: **2 7 1 1**