



Prehistoric Fossil Vault Code

Match the prehistoric fossils to their hidden values to crack the code on the paleontologist's field crate.

Name: _____ Date: _____

1 THE KEY

$$\text{Hexagon} = 12 \quad \text{Triangle with ?} = \square \quad \text{Cross} = \square \quad \text{Crescent} = 9 \quad \text{Heart} = 13 \quad \text{Circle with ?} = \square$$

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.

$$\text{Cross} + \text{Hexagon} = 17$$

$$\text{Triangle} + \text{Crescent} = 12$$

$$\text{Circle} + \text{Heart} = 21$$

3 CRACK THESE

$$1. \text{Circle} \times \text{Heart} = \square$$

$$2. 3 \text{Triangle} + 2 \text{Heart} = \square$$

CODE 1

$$3. \text{Heart} \times \text{Crescent} = \square$$

$$4. 100 \text{Heart} + \text{Circle} = \square$$

CODE 2

$$5. \text{Triangle} \times \text{Heart} - \text{Crescent} = \square$$

$$6. 100 \text{Hexagon} + \text{Triangle} = \square$$

CODE 3

$$7. \text{Hexagon} \times \text{Triangle} - \text{Heart} = \square$$

$$8. 3 \text{Triangle} + 2 \text{Cross} = \square$$

CODE 4

$$9. (\text{Triangle} + \text{Heart}) \times \text{Cross} = \square$$

$$10. \text{Heart} \times \text{Triangle} + \text{Cross} = \square$$

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 paleontologists field crate.

Answer Key

Prehistoric Fossil Vault Code · Grade 4 Crack the Code

The key

 hexagon = **12**
  triangle = **3** (hidden)
  cross = **5** (hidden)
  moon = **9**
  heart = **13**
 circle = **8** (hidden)

Every symbol is a whole number from 1 to 15.

- | | | |
|-----|--|-------------|
| 1. |  x  (circle x heart) | 104 |
| 2. | 3  + 2  (3 x triangle + 2 x heart) | 35 |
| 3. |  x  (heart x moon) | 117 |
| 4. | 100  +  (100 x heart + circle) | 1308 |
| 5. |  x  -  (triangle x heart - moon) | 30 |
| 6. | 100  +  (100 x hexagon + triangle) | 1203 |
| 7. |  x  -  (hexagon x triangle - heart) | 23 |
| 8. | 3  + 2  (3 x triangle + 2 x cross) | 19 |
| 9. | ( + ) x  ((triangle + heart) x cross) | 80 |
| 10. |  x  +  (heart x triangle + cross) | 44 |

Vault code: **5839**