



Cretaceous Code Breaker

Find the hidden number values for the triceratops skull, T-rex tooth, and raptor claw to crack the four-digit combination lock on the heavy field chest.

Name: _____ Date: _____

1 THE KEY

$$\blacklozenge = 11 \quad \smile = 3 \quad \blackpentagon = 4 \quad \mathbf{+} = \square \quad \blacktriangle = 9 \quad \star = \square$$

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.

$$\mathbf{+} + \smile = 15$$

$$\mathbf{+} - \star = 6$$

3 CRACK THESE

1. $\mathbf{+} \times \smile = \square$

2. $\mathbf{+} + \star + \blacklozenge = \square$

CODE 1

3. $2\blacklozenge + \star = \square$

4. $\mathbf{+} \times \blacktriangle - \star = \square$

CODE 2

5. $\blackpentagon \times \blacklozenge = \square$

6. $\blacklozenge + \mathbf{+} + \blackpentagon = \square$

CODE 3

7. $2\star + \blackpentagon = \square$

8. $\mathbf{+} \times \blacktriangle - \blackpentagon = \square$

CODE 4

9. $3\mathbf{+} - \blacktriangle = \square$

10. $10\mathbf{+} + \smile = \square$

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 locked steel.

Answer Key

Cretaceous Code Breaker · Grade 3 Crack the Code

The key

 diamond = **11**
  moon = **3**
  pentagon = **4**
  cross = **12** (hidden)
  triangle = **9**
 star = **6** (hidden)

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|---|------------|
| 1. | $\text{+} \times \text{☾}$ (cross x moon) | 36 |
| 2. | $\text{+} + \text{★} + \text{◆}$ (cross + star + diamond) | 29 |
| 3. | $2\text{◆} + \text{★}$ (2 x diamond + star) | 28 |
| 4. | $\text{+} \times \text{▲} - \text{★}$ (cross x triangle - star) | 102 |
| 5. | $\text{⬠} \times \text{◆}$ (pentagon x diamond) | 44 |
| 6. | $\text{◆} + \text{+} + \text{⬠}$ (diamond + cross + pentagon) | 27 |
| 7. | $2\text{★} + \text{⬠}$ (2 x star + pentagon) | 16 |
| 8. | $\text{+} \times \text{▲} - \text{⬠}$ (cross x triangle - pentagon) | 104 |
| 9. | $3\text{+} - \text{▲}$ (3 x cross - triangle) | 27 |
| 10. | $10\text{+} + \text{☾}$ (10 x cross + moon) | 123 |

Vault code: 9 2 7 4