



Paleontologist Dig Site Decoder

Use your paleontologist math skills to find the missing fossil weights and reveal the secret four-digit combination to the specimen transport case.

Name: _____ Date: _____

1 THE KEY

$$\blacksquare = 13 \quad \text{?} = \square \quad \text{?} = \square \quad + = \square \quad \blacktriangle = 14 \quad \heartsuit = 8$$

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.

$$\blacksquare - \text{?} = 4$$

$$\blacktriangle - \text{?} = 7$$

$$+ \times \text{?} = 77$$

3 CRACK THESE

1. $\blacksquare \times \heartsuit = \square$

2. $+ \times \text{?} = \square$

CODE 1

3. $10\blacksquare - \heartsuit = \square$

4. $\blacksquare \times + - \text{?} = \square$

CODE 2

5. $\text{?} \times \text{?} - \heartsuit = \square$

6. $\text{?} \times \blacktriangle + \heartsuit = \square$

CODE 3

7. $10+ - \blacktriangle = \square$

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

CODE 4

9. $3\blacksquare + 2\text{?} = \square$

10. $100\blacksquare + \heartsuit = \square$

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 reinforced titanium fossil.

Answer Key

Paleontologist Dig Site Decoder · Grade 4 Crack the Code

The key

 square = **13**
  hexagon = **9** (hidden)
  moon = **7** (hidden)
  cross = **11** (hidden)
  triangle = **14**
 heart = **8**

Every symbol is a whole number from 1 to 15.

1.  x  (square x heart) **104**
2.  x  (cross x moon) **77**
3. **10**  -  (10 x square - heart) **122**
4.  x  -  (square x cross - moon) **136**
5.  x  -  (moon x hexagon - heart) **55**
6.  x  +  (hexagon x triangle + heart) **134**
7. **10**  -  (10 x cross - triangle) **96**
8. **3**  + **2**  (3 x hexagon + 2 x moon) **41**
9. **3**  + **2**  (3 x square + 2 x moon) **53**
10. **100**  +  (100 x square + heart) **1308**

Vault code: **7 6 4 1**