



Soccer Season Vault Code

Determine the number value of each piece of soccer equipment to crack the four-digit code for the equipment shed lock.

Name: _____ Date: _____

1 THE KEY

$$\text{Pentagon} = 12 \quad \boxed{?} = \boxed{} \quad \text{Star} = 2 \quad \text{Lightning Bolt} = 6 \quad \text{Circle with ?} = \boxed{} \quad \text{Diamond} = 5$$

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.

$$\text{Diamond} - \text{Circle} = 1$$

$$\text{Square} + \text{Lightning Bolt} = 9$$

3 CRACK THESE

$$1. \quad 3 \text{ Diamond} - \text{Pentagon} = \boxed{}$$

$$2. \quad \text{Pentagon} \times \text{Lightning Bolt} = \boxed{}$$

CODE 1

$$3. \quad 10 \text{ Pentagon} + \text{Circle} = \boxed{}$$

$$4. \quad 5 \text{ Pentagon} - \text{Square} = \boxed{}$$

CODE 2

$$5. \quad \text{Pentagon} \times \text{Star} = \boxed{}$$

$$6. \quad \text{Pentagon} \times \text{Diamond} + \text{Square} = \boxed{}$$

CODE 3

$$7. \quad 2 \text{ Lightning Bolt} + \text{Diamond} = \boxed{}$$

$$8. \quad 10 \text{ Circle} + \text{Lightning Bolt} = \boxed{}$$

CODE 4

$$9. \quad 5 \text{ Diamond} - \text{Square} = \boxed{}$$

$$10. \quad 2 \text{ Circle} + \text{Pentagon} = \boxed{}$$

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 equipment shed lock.

Answer Key

Soccer Season Vault Code · Grade 3 Crack the Code

The key

 pentagon = **12**
  square = **3** (hidden)
  star = **2**
  lightning bolt = **6**
  circle = **4** (hidden)
 diamond = **5**

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|---|------------|
| 1. | 3  -  (3 x diamond - pentagon) | 3 |
| 2. |  ×  (pentagon x lightning bolt) | 72 |
| 3. | 10  +  (10 x pentagon + circle) | 124 |
| 4. | 5  -  (5 x pentagon - square) | 57 |
| 5. |  ×  (pentagon x star) | 24 |
| 6. |  ×  +  (pentagon x diamond + square) | 63 |
| 7. | 2  +  (2 x lightning bolt + diamond) | 17 |
| 8. | 10  +  (10 x circle + lightning bolt) | 46 |
| 9. | 5  -  (5 x diamond - square) | 22 |
| 10. | 2  +  (2 x circle + pentagon) | 20 |

Vault code: **2 7 3 6**