

Championship Trophy Code Breaker

Find the hidden number values for the soccer balls, cleats, and goalie gloves to unlock the team equipment trunk.

Name: _____ Date: _____

1 THE KEY

$$\bullet = 9 \quad \hexagon = 8 \quad + = 5 \quad \star = \boxed{} \quad \blacktriangle = 3 \quad \heartsuit = \boxed{}$$

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.

$$\star + \star + \star = 21$$

$$\heartsuit + \star = 9$$

3 CRACK THESE

$$1. \quad \blacktriangle \times \bullet + \heartsuit = \boxed{}$$

$$2. \quad \blacktriangle \times + + \star = \boxed{}$$

CODE 1

$$3. \quad \heartsuit \times + - \star = \boxed{}$$

$$4. \quad + \times \bullet = \boxed{}$$

CODE 2

$$5. \quad 5 \hexagon - \bullet = \boxed{}$$

$$6. \quad 2 \bullet + \hexagon = \boxed{}$$

CODE 3

$$7. \quad 10 \heartsuit + + = \boxed{}$$

$$8. \quad \hexagon \times \star = \boxed{}$$

CODE 4

$$9. \quad \heartsuit \times + - \blacktriangle = \boxed{}$$

$$10. \quad 5 + - \blacktriangle = \boxed{}$$

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 locked metal team.

Answer Key

Championship Trophy Code Breaker · Grade 3 Crack the Code

The key

 circle = **9**
  hexagon = **8**
  cross = **5**
  star = **7** (hidden)
  triangle = **3**
 heart = **2** (hidden)

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|---|-----------|
| 1. | $\triangle \times \bullet + \heartsuit$ (triangle x circle + heart) | 29 |
| 2. | $\triangle \times + + \star$ (triangle x cross + star) | 22 |
| 3. | $\heartsuit \times + - \star$ (heart x cross - star) | 3 |
| 4. | $+ \times \bullet$ (cross x circle) | 45 |
| 5. | $5\hexagon - \bullet$ (5 x hexagon - circle) | 31 |
| 6. | $2\bullet + \hexagon$ (2 x circle + hexagon) | 26 |
| 7. | $10\heartsuit + +$ (10 x heart + cross) | 25 |
| 8. | $\hexagon \times \star$ (hexagon x star) | 56 |
| 9. | $\heartsuit \times + - \triangle$ (heart x cross - triangle) | 7 |
| 10. | $5+ - \triangle$ (5 x cross - triangle) | 22 |

Vault code: **2 5 6 6**