



Grand Slam Math Code Breaker

Solve the baseball symbol equations to uncover the four-digit combination to the dugout equipment manager's locker.

Name: _____ Date: _____

1 THE KEY

$$\begin{array}{ccccccc} \text{?} & = & \square & \bigcirc & = & 3 & + & = & \square & \blacksquare & = & 6 & \blacklozenge & = & 4 & \smile & = & 9 \end{array}$$

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.

$$2\blacklozenge = 10$$

$$+ + + = 20$$

3 CRACK THESE

$$1. \bigcirc \times + = \square$$

$$2. 10\smile + \blacklozenge = \square$$

CODE 1

$$3. + \times \blacksquare + \bigcirc = \square$$

$$4. \bigcirc \times \blacklozenge = \square$$

CODE 2

$$5. \blacksquare + \blacklozenge + \smile = \square$$

$$6. 10\blacksquare + \smile = \square$$

CODE 3

$$7. + \times \blacklozenge + \bigcirc = \square$$

$$8. \blacksquare \times + - \blacklozenge = \square$$

CODE 4

$$9. 5\bigcirc - \smile = \square$$

$$10. 2+ + \smile = \square$$

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 dugout equipment locker.

The key

Every symbol is a whole number from 1 to 12.

- Vault code:** 5 5 9 5