



The Grand Slam Locker Code

Solve the baseball math equations to reveal the four-digit combination needed to unlock the championship trophy case.

Name: _____ Date: _____

1 THE KEY

$$\begin{array}{l} \textcircled{?} = \square \quad \blacklozenge = 10 \quad \triangle = \square \quad \blacksquare = 11 \quad \star = 17 \\ \heartsuit = \square \end{array}$$

Every symbol is a whole number from 1 to 20. 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.

$$2 \heartsuit + \blacksquare = 35$$

$$\blacktriangle - \blacklozenge = 4$$

$$\bigcirc + \blacklozenge = 23$$

3 CRACK THESE

$$1. \blacklozenge \times \star + \bigcirc \times \blacksquare = \square$$

$$2. \blacktriangle \times \heartsuit - \blacklozenge = \square$$

CODE 1

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

$$4. \blacklozenge \times \blacksquare + \blacktriangle \times \bigcirc = \square$$

CODE 2

$$5. \bigcirc + \star \times \blacksquare = \square$$

$$6. \blacklozenge \times \bigcirc \times \blacksquare = \square$$

CODE 3

$$7. \blacksquare + \blacktriangle \times \blacklozenge = \square$$

$$8. (\blacklozenge + \heartsuit) \times \star = \square$$

CODE 4

$$9. \blacksquare \times \star - \bigcirc = \square$$

$$10. 3 \blacklozenge + 2 \star = \square$$

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 championship trophy case.

Answer Key

The Grand Slam Locker Code · Grade 5 Crack the Code

The key

○ ring = 13 (hidden) ⬠ pentagon = 10 ▲ triangle = 14 (hidden) ■ square = 11 ★ star = 17
 ♥ heart = 12 (hidden)

Every symbol is a whole number from 1 to 20.

- | | | |
|-----|---|------|
| 1. | $\text{⬠} \times \text{★} + \text{○} \times \text{■}$ (pentagon x star + ring x square) | 313 |
| 2. | $\text{▲} \times \text{♥} - \text{⬠}$ (triangle x heart - pentagon) | 158 |
| 3. | $10 \text{⬠} - \text{■}$ (10 x pentagon - square) | 89 |
| 4. | $\text{⬠} \times \text{■} + \text{▲} \times \text{○}$ (pentagon x square + triangle x ring) | 292 |
| 5. | $\text{○} + \text{★} \times \text{■}$ (ring + star x square) | 200 |
| 6. | $\text{⬠} \times \text{○} \times \text{■}$ (pentagon x ring x square) | 1430 |
| 7. | $\text{■} + \text{▲} \times \text{⬠}$ (square + triangle x pentagon) | 151 |
| 8. | $(\text{⬠} + \text{♥}) \times \text{★}$ ((pentagon + heart) x star) | 374 |
| 9. | $\text{■} \times \text{★} - \text{○}$ (square x star - ring) | 174 |
| 10. | $3 \text{⬠} + 2 \text{★}$ (3 x pentagon + 2 x star) | 64 |

Vault code: **8 2 0 4**