

Master Builder Brick Code Challenge

Solve the math equations by figuring out which number each Lego brick shape represents to find the secret combination.

Name: _____ Date: _____

1 THE KEY

$$+ = 7 \quad \bigcirc = 6 \quad \bullet = 2 \quad \hexagon = 5 \quad \star = 3$$

Every symbol is a whole number from 1 to 10. A number in front of a shape means multiply: 2 stars = 2 x star.

2 CRACK THESE

1. $2\bigcirc - \star = \boxed{}$

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

CODE 1

3. $\bullet + \hexagon - \bigcirc = \boxed{}$

4. $2\star = \boxed{}$

CODE 2

5. $2\star + \bigcirc = \boxed{}$

6. $\bigcirc + \star - \hexagon = \boxed{}$

CODE 3

7. $\bullet + 2+ = \boxed{}$

8. $\star + \bigcirc + + = \boxed{}$

CODE 4

9. $\boxed{} + \hexagon = 8$ Draw the shape:

10. $\boxed{} + + = 13$ Draw the shape:

3 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 master builders golden.

Answer Key

Master Builder Brick Code Challenge · Grade 2 Crack the Code

The key

 cross = 7  ring = 6  circle = 2  hexagon = 5  star = 3

Every symbol is a whole number from 1 to 10.

- | | | |
|-----|---|------|
| 1. | $2 \bigcirc - \star$ (2 x ring - star) | 9 |
| 2. | $2 \bullet + \hexagon$ (2 x circle + hexagon) | 9 |
| 3. | $\bullet + \hexagon - \bigcirc$ (circle + hexagon - ring) | 1 |
| 4. | $2 \star$ (2 x star) | 6 |
| 5. | $2 \star + \bigcirc$ (2 x star + ring) | 12 |
| 6. | $\bigcirc + \star - \hexagon$ (ring + star - hexagon) | 4 |
| 7. | $\bullet + 2 \text{+}$ (circle + 2 x cross) | 16 |
| 8. | $\star + \bigcirc + \text{+}$ (star + ring + cross) | 16 |
| 9. | $\square + \hexagon = 8$ (? + hexagon) | star |
| 10. | $\square + \text{+} = 13$ (? + cross) | ring |

Vault code: **9 6 4 6**