



Robo-Decoder Challenge

Use your addition and subtraction skills to find the number value of each robot part so you can open the locked storage trunk.

Name: _____ Date: _____

1 THE KEY

$$+ = 9 \quad \blacksquare = 1 \quad \bigcirc = 8 \quad \blacktriangle = 2$$

Every symbol is a whole number from 1 to 9.

2 CRACK THESE

1. $20 - \bigcirc = \square$

2. $+ + \bigcirc + \blacksquare = \square$

CODE 1

3. $+ + 2 = \square$

4. $\blacktriangle + + = \square$

CODE 2

5. $\blacktriangle + \bigcirc = \square$

6. $\bigcirc - \blacktriangle = \square$

CODE 3

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

8. $\bigcirc + 3 = \square$

CODE 4

9. $\square + \blacksquare = 10$ Draw the shape: $\square$

10. $\square + \bigcirc = 10$ Draw the shape: $\square$

3 THE VAULT CODE

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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 storage trunk.

Answer Key

Robo-Decoder Challenge · Grade 1 Crack the Code

The key

+ cross = **9** **■** square = **1** **○** ring = **8** **▲** triangle = **2**

Every symbol is a whole number from 1 to 9.

- | | | |
|-----|--|-----------------|
| 1. | 20 - ○ (20 - ring) | 12 |
| 2. | + + ○ + ■ (cross + ring + square) | 18 |
| 3. | + + 2 (cross + 2) | 11 |
| 4. | ▲ + + (triangle + cross) | 11 |
| 5. | ▲ + ○ (triangle + ring) | 10 |
| 6. | ○ - ▲ (ring - triangle) | 6 |
| 7. | ▲ + + + ■ (triangle + cross + square) | 12 |
| 8. | ○ + 3 (ring + 3) | 11 |
| 9. | □ + ■ = 10 (? + square) | cross |
| 10. | □ + ○ = 10 (? + ring) | triangle |

Vault code: 8 1 6 1