



Redstone Door Decoder

Solve the block equations using addition and subtraction to find the four-digit passcode for the hidden vault.

Name: _____ Date: _____

1 THE KEY

$\blacktriangle = 3$ $\blacklightning = 7$ $\star = 8$ $\bullet = 5$ $+$ = 10

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. $2\blacklightning + \blacktriangle = \square$

2. $3\blacktriangle = \square$

CODE 1

3. $2+ + 2\bullet = \square$

4. $+ + \star = \square$

CODE 2

5. $2\star = \square$

6. $\bullet + 2+ = \square$

CODE 3

7. $2+ + \blacklightning = \square$

8. $\blacklightning - \bullet = \square$

CODE 4

9. $\square + \blacklightning = 12$ Draw the shape: $\square$

10. $\square + + = 18$ 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 obsidian chest holding.

Answer Key

Redstone Door Decoder · Grade 2 Crack the Code

The key

▲ triangle = 3 ⚡ lightning bolt = 7 ★ star = 8 ● circle = 5 + cross = 10

Every symbol is a whole number from 1 to 10.

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|-----|------------------------------|---------------------------------|--------|
| 1. | $2\text{⚡} + 1\text{▲}$ | (2 x lightning bolt + triangle) | 17 |
| 2. | 3▲ | (3 x triangle) | 9 |
| 3. | $2\text{+} + 2\text{●}$ | (2 x cross + 2 x circle) | 30 |
| 4. | $1\text{+} + 1\text{★}$ | (cross + star) | 18 |
| 5. | 2★ | (2 x star) | 16 |
| 6. | $1\text{●} + 2\text{+}$ | (circle + 2 x cross) | 25 |
| 7. | $2\text{+} + 1\text{⚡}$ | (2 x cross + lightning bolt) | 27 |
| 8. | $1\text{⚡} - 1\text{●}$ | (lightning bolt - circle) | 2 |
| 9. | $1\text{□} + 1\text{⚡} = 12$ | (? + lightning bolt) | circle |
| 10. | $1\text{□} + 1\text{+} = 18$ | (? + cross) | star |

Vault code: **9 8 5 2**