



Hero Association Training Vault

Solve these math equations to find the missing power levels and unlock the secret simulator room.

Name: _____ Date: _____

1 THE KEY

$$+ = 12 \quad ? = \square \quad ? = \square \quad \bigcirc = 11 \quad \blacklozenge = 4 \quad \blacktriangle = 6$$

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.

$$4\bullet = 28$$

$$\smile + \bullet = 12$$

3 CRACK THESE

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

$$2. \blacklozenge \times \bigcirc + + = \square$$

CODE 1

$$3. \smile \times + = \square$$

$$4. 5\blacktriangle - \blacklozenge = \square$$

CODE 2

$$5. \bullet \times \blacktriangle + \blacklozenge = \square$$

$$6. \smile + \blacklozenge + \blacktriangle = \square$$

CODE 3

$$7. 10\smile + \bullet = \square$$

$$8. 10\bullet + \blacklozenge = \square$$

CODE 4

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

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

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 genoss spare parts.

Answer Key

Hero Association Training Vault · Grade 3 Crack the Code

The key

 cross = **12**
  circle = **7** (hidden)
  moon = **5** (hidden)
  ring = **11**
  pentagon = **4**
 triangle = **6**

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|---|-----------|
| 1. | $\triangle \times \bigcirc - +$ (triangle x ring - cross) | 54 |
| 2. | $\pentagon \times \bigcirc + +$ (pentagon x ring + cross) | 56 |
| 3. | $\smile \times +$ (moon x cross) | 60 |
| 4. | $5\triangle - \pentagon$ (5 x triangle - pentagon) | 26 |
| 5. | $\bullet \times \triangle + \pentagon$ (circle x triangle + pentagon) | 46 |
| 6. | $\smile + \pentagon + \triangle$ (moon + pentagon + triangle) | 15 |
| 7. | $10\smile + \bullet$ (10 x moon + circle) | 57 |
| 8. | $10\bullet + \pentagon$ (10 x circle + pentagon) | 74 |
| 9. | $5\smile - \triangle$ (5 x moon - triangle) | 19 |
| 10. | $2\bullet + +$ (2 x circle + cross) | 26 |

Vault code: **6 6 5 4**