

The Secret Tuna Pantry

Solve the math equations to find which numbers the playful kittens are hiding so you can crack the code to the locked seafood pantry.

Name: _____ Date: _____

1 THE KEY

$$\blacklozenge = 2 \quad \heartsuit = \square \quad \blacktriangle = 10 \quad \blacklightning = 9 \quad \textcircled{?} = \square \quad \blackhexagon = 8$$

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.

$$4 \textcircled{?} = 48$$

$$\heartsuit + \heartsuit = 14$$

3 CRACK THESE

$$1. \ 5 \heartsuit - \blacktriangle = \square$$

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

CODE 1

$$3. \ 2 \blacklightning + \blackhexagon = \square$$

$$4. \ 10 \textcircled{?} + \blacklozenge = \square$$

CODE 2

$$5. \ 5 \blacklightning - \blackhexagon = \square$$

$$6. \ \blacklightning \times \blacklozenge + \heartsuit = \square$$

CODE 3

$$7. \ 10 \heartsuit + \textcircled{?} = \square$$

$$8. \ \heartsuit \times \blacktriangle + \blacklightning = \square$$

CODE 4

$$9. \ \blackhexagon \times \textcircled{?} = \square$$

$$10. \ \heartsuit \times \textcircled{?} = \square$$

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 locked seafood pantry.

Answer Key

The Secret Tuna Pantry · Grade 3 Crack the Code

The key

 diamond = 2
  heart = 7 (hidden)
  triangle = 10
  lightning bolt = 9
  moon = 12 (hidden)
 hexagon = 8

Every symbol is a whole number from 1 to 12.

- | | | |
|-----|---|-----|
| 1. | $5 \heartsuit - \blacktriangle$ (5 x heart - triangle) | 25 |
| 2. | $2 \hexagon + \blacktriangle$ (2 x hexagon + triangle) | 26 |
| 3. | $2 \lightningbolt + \hexagon$ (2 x lightning bolt + hexagon) | 26 |
| 4. | $10 \frown + \blacklozenge$ (10 x moon + diamond) | 122 |
| 5. | $5 \lightningbolt - \hexagon$ (5 x lightning bolt - hexagon) | 37 |
| 6. | $\lightningbolt \times \blacklozenge + \heartsuit$ (lightning bolt x diamond + heart) | 25 |
| 7. | $10 \heartsuit + \frown$ (10 x heart + moon) | 82 |
| 8. | $\heartsuit \times \blacktriangle + \lightningbolt$ (heart x triangle + lightning bolt) | 79 |
| 9. | $\hexagon \times \frown$ (hexagon x moon) | 96 |
| 10. | $\heartsuit \times \frown$ (heart x moon) | 84 |

Vault code: **6 2 5 9**