Space Cat Redstone Lock

Solve the symbol equations to calculate the values of the cosmic blocks and reveal the code for the lunar cat vault.

Name: _____ **Date:** _____

1 THE KEY

⚡ = 13 ✚ = 12 ⬢? = ☐ ▲ = 3 ★? = ☐ ? = ☐

Every symbol is a whole number from 1 to 15. 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★ = 44

■ + ▲ = 18

2⬢ = 10

3 CRACK THESE

1. (⚡ + ★) × ■ = ☐

2. ⬢ × ✚ = ☐ CODE 1

3. 100✚ + ⬢ = ☐

4. 3■ + 2▲ = ☐ CODE 2

5. ▲ × ⚡ = ☐

6. ⬢ × ▲ ÷ ■ = ☐ CODE 3

7. ✚ × ⬢ + ⚡ = ☐

8. 100★ + ▲ = ☐ CODE 4

9. (■ + ▲) × ⚡ = ☐

10. ▲ × ■ - ⚡ = ☐

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 lunar cat vault.

TEACHER / PARENT

Answer Key

Space Cat Redstone Lock · Grade 4 Crack the Code

The key

lightning bolt = **13** cross = **12** hexagon = **5** (hidden) triangle = **3** star = **11** (hidden)

square = **15** (hidden)

Every symbol is a whole number from 1 to 15.

1.	(lightning bolt + star) × square ((lightning bolt + star) x square)	**360**
2.	hexagon × cross (hexagon x cross)	**60**
3.	**100** cross + hexagon (100 x cross + hexagon)	**1205**
4.	**3** square + **2** triangle (3 x square + 2 x triangle)	**51**
5.	triangle × lightning bolt (triangle x lightning bolt)	**39**
6.	hexagon × triangle ÷ square (hexagon x triangle / square)	**1**
7.	cross × hexagon + lightning bolt (cross x hexagon + lightning bolt)	**73**
8.	**100** star + triangle (100 x star + triangle)	**1103**
9.	(square + triangle) × lightning bolt ((square + triangle) x lightning bolt)	**234**
10.	triangle × square - lightning bolt (triangle x square - lightning bolt)	**32**

Vault code: **0 1 1 3**