Feline Mystery Code

Determine the numerical value of each cat symbol to discover the four-digit combination that unlocks the automated treat dispenser.

Name: _____ **Date:** _____

1 THE KEY

? = ☐ ✚ = 12 ⬢ = 3 ☾? = ☐ △? = ☐ ◆ = 15

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.

3▲ = 39

3● = 33

2☾ = 14

3 CRACK THESE

1. ◆ × ⬢ - ● = ☐
2. ● × ✚ ÷ ⬢ = ☐ CODE 1
3. (● + ⬢) × ☾ = ☐
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 automated cat treat.

TEACHER / PARENT

Answer Key

Feline Mystery Code · Grade 4 Crack the Code

The key

● circle = **11** (hidden) ✚ cross = **12** ⬢ hexagon = **3** ☾ moon = **7** (hidden) ▲ triangle = **13** (hidden) ◆ diamond = **15**

Every symbol is a whole number from 1 to 15.

1.	◆ × ⬢ - ● (diamond x hexagon - circle)	**34**
2.	● × ✚ ÷ ⬢ (circle x cross / hexagon)	**44**
3.	(● + ⬢) × ☾ ((circle + hexagon) x moon)	**98**
4.	**3** ⬢ + **2** ◆ (3 x hexagon + 2 x diamond)	**39**
5.	⬢ × ● (hexagon x circle)	**33**
6.	● × ◆ (circle x diamond)	**165**
7.	▲ × ◆ ÷ ⬢ (triangle x diamond / hexagon)	**65**
8.	**100** ☾ + ▲ (100 x moon + triangle)	**713**
9.	✚ × ◆ + ● (cross x diamond + circle)	**191**
10.	▲ × ◆ - ● (triangle x diamond - circle)	**184**

Vault code: **4 9 5 3**