

The Great Calendar Codex

Calculate the numerical values of the monthly symbols to find the four-digit passcode for the antique calendar chest.

Name: _____ Date: _____

1 THE KEY

$$\star = \square \quad \diamond = \square \quad \blacktriangle = 19 \quad \text{?} = \square \quad \blacksquare = 11 \quad + = 9$$

Every symbol is a whole number from 1 to 20. 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.

$$\text{?}^2 = 16$$

$$2\star + \blacktriangle = 33$$

$$2\diamond + + = 33$$

3 CRACK THESE

$$1. \blacksquare \times \blacktriangle - \diamond \times \star = \square$$

$$2. \blacktriangle + \diamond \times \star = \square$$

CODE 1

$$3. 10\star - \diamond = \square$$

$$4. \diamond + + \times \star = \square$$

CODE 2

$$5. 3\blacktriangle + 2\diamond = \square$$

$$6. \blacksquare \times \star + \blacktriangle \times \text{?} = \square$$

CODE 3

$$7. + \times \blacktriangle - \diamond \times \blacksquare = \square$$

$$8. \star \times \blacksquare - \text{?} = \square$$

CODE 4

$$9. + \times \diamond - \text{?} = \square$$

$$10. + \times \blacksquare \times \text{?} = \square$$

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 antique calendar chest.

Answer Key

The Great Calendar Codex · Grade 5 Crack the Code

The key

★ star = 7 (hidden) ♦ diamond = 12 (hidden) ▲ triangle = 19 ⬡ hexagon = 4 (hidden) ■ square = 11
 + cross = 9

Every symbol is a whole number from 1 to 20.

1. ■ × ▲ - ♦ × ★ (square x triangle - diamond x star) 125
2. ▲ + ♦ × ★ (triangle + diamond x star) 103
3. 10★ - ♦ (10 x star - diamond) 58
4. ♦ + + × ★ (diamond + cross x star) 75
5. 3▲ + 2♦ (3 x triangle + 2 x diamond) 81
6. ■ × ★ + ▲ × ⬡ (square x star + triangle x hexagon) 153
7. + × ▲ - ♦ × ■ (cross x triangle - diamond x square) 39
8. ★ × ■ - ⬡ (star x square - hexagon) 73
9. + × ♦ - ⬡ (cross x diamond - hexagon) 104
10. + × ■ × ⬡ (cross x square x hexagon) 396

Vault code: **3 5 3 3**