

# Factors and Multiples

Solve the clues to find the four-digit code to escape the classroom!

a. List all the factors of 36.

b. List the first five multiples of 13.

c. Write 60 as a product of its prime factors. Give your answer in index form.

d. Find the lowest common multiple of 60 and 75.

The code is the number of factors in the answer to question a, the units digit of the largest multiple in question b, the power of 2 in the answer to question c and the second digit in the answer to question d.

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# Answers

Solve the clues to find the four-digit code to escape the classroom!

a. List all the factors of 36.

**1, 2, 3, 4, 6, 9, 12, 18, 36**

b. List the first five multiples of 13.

**13, 26, 39, 52, 65**

c. Write 60 as a product of its prime factors. Give your answer in index form.

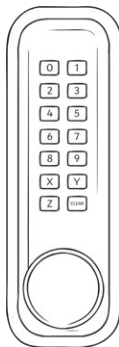
**$60 = 2^2 \times 3 \times 5$**

d. Find the lowest common multiple of 60 and 75.

**300**

The code is the number of factors in the answer to question a, the units digit of the largest multiple in question b, the power of 2 in the answer to question c and the second digit in the answer to question d.

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