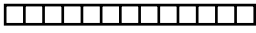
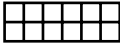

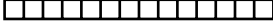



MathFLIX CHALLENGE

Prime Number Graphics

Think about all the different ways there are to draw a rectangle with an area of 12. I can make a 12×1 rectangle...

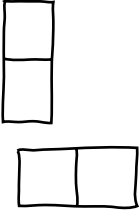
...  ... or a 6×2 rectangle...  ... or a 4×3 rectangle...  ... The number 13,

however, can only be made into one kind of rectangle, a 13×1 ...  ... This is because 13 is a prime number.

Use the rectangle method below to determine whether the following are prime numbers. Remember if you can only make one kind of rectangle, then the number is prime. If you can make more than one rectangle, then the number is not prime, it is composite. Hint: a 3×1 rectangle  is equivalent to

a 1×3 rectangle .

First set

| 2 | 3 | 5 | 7 | 11 |
|--|---|---|---|----|
|  PRIME | | | | |

Second set

| 4 | 6 | 8 | 9 | 10 |
|---|---|---|---|----|
| | | | | |