

NAME _____

Set A2 ★ Independent Worksheet 1



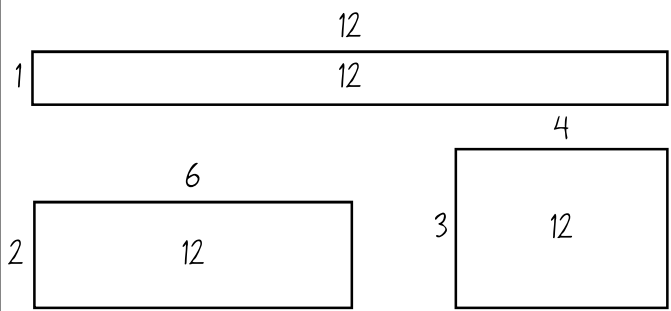
INDEPENDENT WORKSHEET

Prime or Composite?

You will need square-inch tiles to complete these sheets.

1 For each of the numbers below:

- use your tiles to build all the possible rectangles that can be formed with that number.
- make a labeled quick sketch to show each rectangle
- record a multiplication sentence for each pair of factors.
- circle the correct word to tell whether the number is prime or composite

Number	Labeled Quick Sketch	Multiplication Sentence for Each Pair of Factors	Prime or Composite?
example 12		$1 \times 12 = 12$ $2 \times 6 = 12$ $3 \times 4 = 12$	prime or <u>composite?</u>

Number	Labeled Quick Sketch	Multiplication Sentence for Each Pair of Factors	Prime or Composite?
1a 18			prime or composite?
b 29			prime or composite?
c 33			prime or composite?

Independent Worksheet 1 Prime or Composite? (cont.)

Number	Labeled Quick Sketch	Multiplication Sentence for Each Pair of Factors	Prime or Composite?
1d 42			prime or composite?

2 Josef says that if you can only build 1 rectangle for a number, that means it's prime. Do you agree with him or not? Use numbers, words, and/or labeled sketches to explain your answer.

3 List all the prime numbers between 20 and 30 in the left-hand box below. List all the composite numbers between 20 and 30 in the right-hand box below. Use your tiles to help decide which are prime and which are composite

Prime Numbers between 20 and 30	Composite Numbers between 20 and 30