

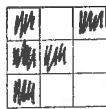
# 2.3

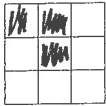
## Exploring Ratios

▶ **GOAL:** Investigate the ratios of areas created by pattern block designs.

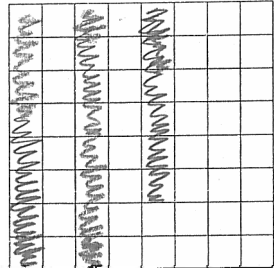
1. Write a ratio for each set of squares that compares the number of grey squares to the number of white squares.

a)  Ratio: \_\_\_\_\_

b)  Ratio: \_\_\_\_\_

c)  Ratio: \_\_\_\_\_

d)  Ratio: \_\_\_\_\_

e)  Ratio: \_\_\_\_\_

2. Teo has four pairs of white socks, two pairs of yellow socks, one pair of green socks, and three pairs of black socks.

- a) What is the ratio of white socks to black socks? \_\_\_\_\_  
 b) What is the ratio of green socks to black socks? \_\_\_\_\_  
 c) What is the ratio of yellow socks to white socks? \_\_\_\_\_  
 d) What is the ratio of black socks to yellow socks to green socks? \_\_\_\_\_

3. Use two different colours of pencil to draw a pattern in the grid below that matches the ratio 12:4.

### At-Home Help

A **ratio** is a comparison of two or more quantities having the same units. For example, a box has three red balls, one blue ball, and two green balls.

The ratio of red to blue to green balls is 3:1:2.

The ratio of red to green balls is 3:2.

The ratio of blue to green balls is 1:2.