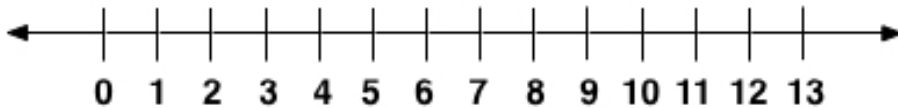# 8.4 Dividing Integers

**Division Using a Number Line**

$$12 \div 3 = 4$$

|---+---+---+---+---+---+---+---+---+---+---+---+---|
0  1  2  3  4  5  6  7  8  9  10 11 12 13

|---+---+---+---+---+---+---+---+---+---+---+---+---|
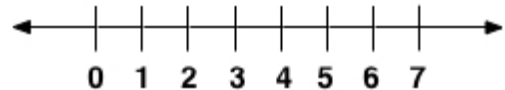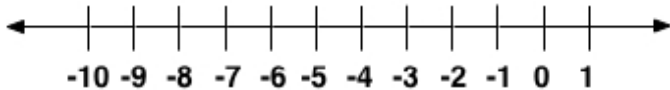0  1  2  3  4  5  6  7  8  9  10 11 12 13
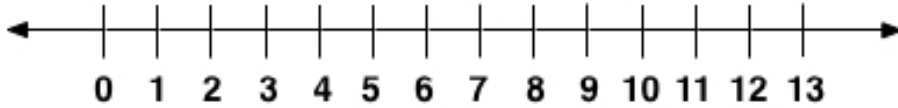
Ex. 1 Determine the quotient using a number line.

**a)** $(-8) \div 4 =$

**b)** $(4) \div 4 =$

|---+---+---+---+---+---+---+---+---+---|
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1  0  1

|---+---+---+---+---+---+---|
0  1  2  3  4  5  6  7

Ex. 2 Write two division statements that the diagram could represent.

|---+---+---+---+---+---+---+---+---|
0  1  2  3  4  5  6  7  8