Writing ratio sentences and drawing bar diagrams for ratios   name:_____

1. This diagram show the ratio of ducks to chickens on a farm:

Ducks   [ ][ ]
Chickens [ ][ ][ ]   ] birds

technically if the first word in a sentence is a number, we spell it out "two-fifths" instead of numerals (2/5) (but it's not a big deal)

a. Write a sentence that uses a ratio (___:___) to compare ducks to chickens

The ratio of ducks to chickens is 2:3

"to"

b. Write a sentence that uses a ratio to compare ducks to chickens

The ratio of chickens to ducks is 3:2

c. Write a sentence that tells what fraction of the birds are ducks

Two-fifths* of the birds are ducks.

d. Write a sentence that tells what fraction of the birds are chickens.

Three-fifths of the birds are chickens   *practice this phrase*

e. Write a sentence that tells how many times as many chickens as ducks there are

There are 1½ times as many chickens as ducks

f. Write a sentence that tells how many times as many ducks as chickens there are.

There are 2/3 * as many ducks as chickens

2. The ratio of blue pens to black pens in the drawer is 3:4.

a. Draw a bar diagram showing how the numbers of black and blue pens are related.

Usually we say 1½, but 3/2 is OK.

b. Write a sentence that uses a ratio to compare black pens to blue pens

when the comparison is a proper fraction, we drop the word "times"

c. Write a sentence that tells what fraction of the pens are blue

d. Write a sentence that tells what fraction of the pens are black.

e. Write a sentence that tells how many times as many blue pens as black pens there are

f. Write a sentence that tells how many times as many black pens as blue pens there are.

O/□ as many ducks as chickens

O:□ ducks to chickens