Name _____ Date _____

Ratios and Ratio Language: For Every, For Each and Why Order Matters

Directions: A ratio compares two amounts. It can be written with the word to, with a colon or as a fraction: 7 to 9, 7:9 and 7/9 all show the same ratio. The order of the numbers follows the order of the words, so check which amount is named first.

1. A fruit bowl holds 5 apples and 3 pears and no other fruit. What is the ratio of apples to pears?

A. 3 to 8 B. 3 to 5 C. 5 to 3 D. 5 to 8

2. A soccer team has played 11 games this season. It has 7 wins and 4 losses. Which ratio compares the team's losses to its wins?

A. 7:11 B. 7:4 C. 4:11 D. 4:7

3. A shelf holds 5 mystery books and 2 comic books and nothing else. Choose the words that make each sentence true.

Word bank
mystery books • comic books • all the books

The ratio of _____ to _____ is 2:5. The ratio of mystery books to _____ is 5:7.

4. The ratio of dogs to cats at an animal shelter is 2:5. Which statement must be true?

A. For every 2 dogs, there are 5 cats.

B. 2 out of every 5 animals at the shelter are dogs.

C. The shelter has exactly 3 more cats than dogs.

D. For every 5 dogs, there are 2 cats.

5. A bracelet pattern uses 2 gold beads for every 5 silver beads. Rosa follows the pattern and uses 6 gold beads. How many silver beads does she use?

_____ silver beads

6. A pond has 8 ducks and 3 geese. Two students write the ratio of geese to ducks.

- Tessa writes 8:3, because 8 is the first number in the story.
- Malik writes 3:8, because geese come first in the ratio he was asked for.

Who wrote the ratio correctly, and why?

A. Neither, because the ratio of geese to ducks is 3:11.

B. Malik, because the numbers in a ratio follow the order of the words: geese, then ducks.

C. Both, because 8:3 and 3:8 are the same ratio.

D. Tessa, because the greater number always comes first in a ratio.

7. A bakery sells 3 muffins for every 4 bagels. Which of these show the ratio of muffins to bagels? Select the two correct ways to write it.

☐ A. 4 to 3 ☐ B. 4:3 ☐ C. 3:4

☐ D. 3 to 7 ☐ E. 3/4

8. A school orders 12 pencils for every 4 students. Which statement describes the same ratio?

A. The school orders 8 pencils for each student.

B. The school orders 3 pencils for each student.

C. The school orders 48 pencils for each student.

D. The school orders 1 pencil for every 3 students.

9. A choir has 20 singers. Twelve of them are altos, and the rest are sopranos. What is the ratio of altos to sopranos?

A. 12:8 B. 8:12 C. 8:20 D. 12:20

10. A box has 6 red pens and 10 blue pens. Complete the sentence with the smallest whole numbers that keep the ratio of red pens to blue pens the same.

For every _____ red pens, there are _____ blue pens.