

5.1 Exercises



Vocabulary and Concept Check

1. **VOCABULARY** The ratio of vowels to consonants in a word is 5 to 7. Are there more vowels or consonants in the word? Explain.

2. **NUMBER SENSE** You are comparing apples to oranges in a fruit bowl. Is the ratio 2 : 3 the same as the ratio 3 : 2? Explain.

3. **WHICH ONE DOESN'T BELONG?** Which ratio does *not* belong with the other three? Explain your reasoning.

2 parts to 5 parts

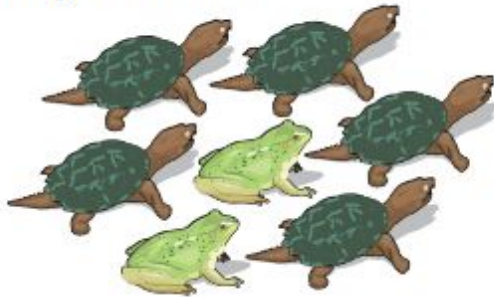
2 out of every 5

2 for each 5

2 for every 5

Write the ratio. Explain what the ratio means.

1 6. frogs to turtles



8. calculators : pencils



Use the table to write the ratio. Explain what the ratio means.

Movie	Number
Drama	3
Comedy	8
Action	4

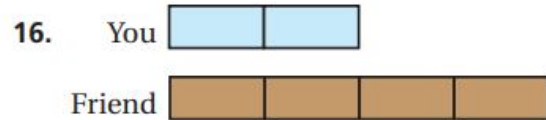
10. dramas to movies

12. movies : action

Topic	Stamps
Birds	7
Celebrity	14
Horses	5
Ships	9

14. **STAMP COLLECTING** The table shows the numbers of stamps in a new stamp collection. Use ratio language to compare the number of celebrity stamps to the total number of stamps.

You and a friend tutor for a total of 12 hours. Use the tape diagram to find how many hours you tutor.

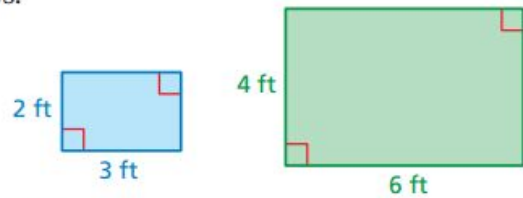


19. **CHECKERS** During a checkers game, there are 16 pieces left. The ratio of black to red is 3:5. How many black pieces are on the board? Explain how you found your answer.

20. **SCHOOL PLAY** There are 48 students in a school play. The ratio of boys to girls is 5 : 7. How many more girls than boys are in the play? Explain how you found your answer.

21. **GEOMETRY** Use the blue and green rectangles.

- a. Find the ratio of the length of the blue rectangle to the length of the green rectangle. Repeat this for width, perimeter, and area.



- b. Compare and contrast your ratios in part (a).

a. Ratio of length of blue rectangle to green rectangle _____

Ratio of width of blue rectangle to green rectangle _____

Ratio of perimeter of blue rectangle to green rectangle _____

Ratio of area of blue rectangle to green rectangle _____

b. _____

24. **Reasoning** There are 12 boys and 10 girls in your gym class. If 6 boys joined the class, how many girls would need to join for the ratio of boys to girls to remain the same? Justify your answer.



Fair Game Review

what you learned in previous grades & lessons

Divide. (Section 2.6)

25. $13.8 \div 3$

26. $16.45 \div 5$

27. $53.13 \div 21$

28. $19.214 \div 13$

29. **MULTIPLE CHOICE** What is the value of the expression $x \div y$ when $x = 30$ and $y = 18$? (Section 3.1)

(A) $\frac{3}{5}$

(B) $1\frac{2}{3}$

(C) 12

(D) 48

25. _____

26. _____

27. _____

28. _____

