

Practice 4-1

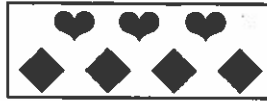
Ratios and Rates

Write three ratios that each diagram can represent.

1.



2.



3.



Write each ratio in simplest form.

4. 9 cm : 12 cm

5. 20 in. out of 25 in.

6. $\frac{18 \text{ km}}{30 \text{ km}}$

7. 6 in. to 2 ft

8. 10 min to 3 h

9. 20 s to 5 min

Find each unit rate.

10. \$67.92 for 4 gal

11. \$21.00 for 6 h

12. 250 mi in 4 h

13. 141 words in 3 min

14. \$5.94 for 6 carnations

15. 36 min for 12 songs

The table at the right shows the results of a survey. Write each of the ratios in simplest form and as a decimal to the nearest hundredth.

Which Meal Do You Want for the Party?

Tacos	Pizza

16. *Tacos to Pizza* _____ 17. *Pizza to Tacos* _____

18. *Tacos to the total* _____ 19. *Pizza to the total* _____

20. Which is the better buy: a 16-oz box of cereal for \$3.89 or a 6-oz box of cereal for \$1.55?

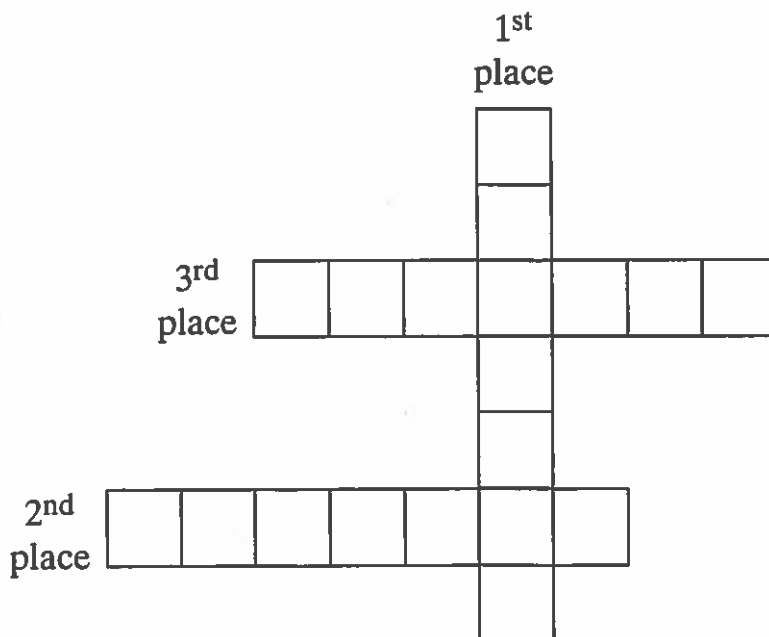
21. A bag contains 8 yellow marbles and 6 blue marbles. What number of yellow marbles can you add to the bag so that the ratio of yellow to blue marbles is 2 : 1?

Puzzle 4-1

Ratios and Rates

Several students participated in a walk for charity. Prizes are awarded to the three students with the fastest walking rates. Complete the table to find each participant's rate and fill in the puzzle to be sure you calculated correctly!

Participant	Distance (miles)	Time (hrs)	Rate (miles/hour)
Melissa	29	11.6	
Allison	37	18.5	
Marquis	40	12	
Cynthia	41	10.25	
Terrell	36	16.2	
Shannon	33	11.55	



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