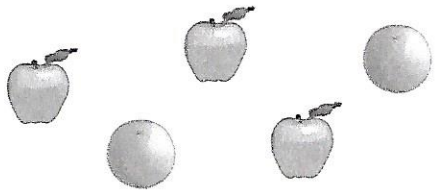
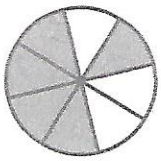
2·1 Exercises

Write the fraction for each picture.

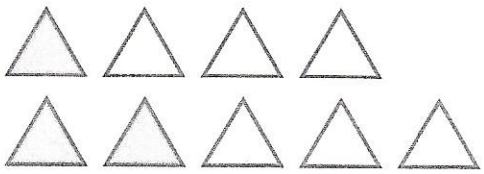
1. ____ of the pieces of fruit are oranges.



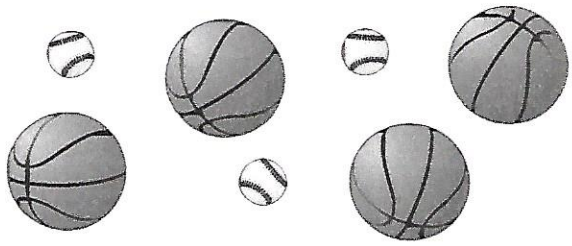
2. ____ of the circle is shaded.



3. ____ of the triangles are green.



4. ____ of the balls are softballs.



Write the fraction.

5. five eighths

6. eleven fifteenths

Write one fraction equivalent to the given fraction.

7. $\frac{3}{4}$ 8. $\frac{5}{6}$ 9. $\frac{10}{50}$ 10. $\frac{8}{16}$ 11. $\frac{12}{16}$

Express each fraction in simplest form.

12. $\frac{28}{35}$ 13. $\frac{20}{36}$ 14. $\frac{66}{99}$ 15. $\frac{42}{74}$ 16. $\frac{22}{33}$

Write each improper fraction as a mixed number. Write in simplest form if possible.

17. $\frac{34}{10}$ 18. $\frac{38}{4}$ 19. $\frac{14}{3}$ 20. $\frac{44}{6}$ 21. $\frac{56}{11}$

Write each mixed number as an improper fraction.

22. $12\frac{5}{6}$ 23. $9\frac{7}{20}$ 24. $1\frac{7}{12}$ 25. $1\frac{3}{21}$

2.2 Exercises

Compare each fraction. Use <, >, or =.

1. $\frac{7}{12} \square \frac{5}{6}$
2. $\frac{2}{3} \square \frac{5}{9}$
3. $\frac{3}{8} \square \frac{1}{3}$
4. $\frac{1}{6} \square \frac{2}{9}$
5. $\frac{8}{9} \square \frac{17}{18}$

Compare each mixed number. Use <, >, or =.

6. $3\frac{2}{5} \square 2\frac{4}{5}$
7. $1\frac{2}{3} \square 1\frac{5}{9}$
8. $2\frac{4}{7} \square 2\frac{5}{12}$
9. $4\frac{2}{5} \square 4\frac{3}{7}$

Order the fractions and mixed numbers from least to greatest.

10. $\frac{3}{8}, \frac{2}{5}, \frac{7}{20}$
11. $\frac{2}{6}, \frac{8}{21}, \frac{4}{14}$
12. $\frac{7}{12}, \frac{23}{40}, \frac{8}{15}, \frac{19}{30}$
13. $1\frac{8}{11}, 2\frac{1}{4}, 1\frac{3}{4}$

Use the following information to answer Exercises 14 and 15.

Baskets Made at Recess	
Toshi	$\frac{5}{7}$
Vanessa	$\frac{8}{12}$
Sylvia	$\frac{4}{9}$
Derrick	$\frac{7}{10}$

14. Who was more accurate in shots, Vanessa or Toshi?
15. Order the players from least accurate to most accurate shots.

2.3 Exercises

Add or subtract.

1. $\frac{5}{7} + \frac{6}{11}$
2. $\frac{1}{4} + \frac{1}{3}$
3. $\frac{2}{5} - \frac{1}{10}$
4. $\frac{7}{8} - \frac{3}{4}$
5. $\frac{7}{12} - \frac{3}{10}$
6. $\frac{3}{10} + \frac{4}{5}$
7. $5\frac{2}{3} + 2\frac{1}{2}$
8. $4\frac{1}{2} - 3\frac{3}{4}$
9. $1\frac{2}{3} + 1\frac{1}{4}$
10. $7\frac{3}{5} - 3\frac{2}{3}$
11. $2\frac{3}{4} + 6\frac{5}{16}$
12. $9\frac{4}{7} - 5\frac{1}{14}$
13. $8\frac{3}{8} + 6\frac{3}{4}$
14. $10\frac{1}{10} - 3\frac{3}{20}$
15. $9\frac{1}{2} - 4\frac{7}{8}$
16. $2\frac{1}{3} - 1\frac{2}{3}$
17. Desrie is planning to make a two-piece costume. One piece requires $1\frac{5}{8}$ yd of material, and the other requires $1\frac{3}{4}$ yd. She has $4\frac{1}{2}$ yd of material. Does she have enough to make the costume?
18. Atiba was $53\frac{7}{8}$ in. tall on his birthday last year. On his birthday this year, he was $56\frac{1}{4}$ in. tall. How much did he grow during the year?
19. Hadas's punch bowl holds 8 qt. Can she serve cranberry punch made with $6\frac{2}{3}$ qt cranberry juice and $2\frac{1}{4}$ qt apple juice?
20. Nia jogged $4\frac{1}{10}$ mi on Sunday, $2\frac{2}{5}$ mi on Tuesday, and $3\frac{1}{2}$ mi on Thursday. How many miles does she have to jog on Saturday to reach her weekly goal of $12\frac{1}{2}$ mi?