

SKILL 8: Practice**Solve each problem.**

1. Toni has an art class for $1\frac{1}{3}$ hours every Thursday. She was late to class this Thursday and was in class for $\frac{5}{6}$ of an hour. How late was she to art class?

2. At Paul's Pet Palace, $\frac{3}{16}$ of the animals are dogs and $\frac{5}{24}$ of the animals are cats. What fraction of the animals are neither dogs nor cats?

3. At a school music festival, Julia played saxophone for $2\frac{2}{3}$ hours, Caroline sang for $1\frac{3}{4}$ hours, Lamont played saxophone for $1\frac{1}{4}$ hours, and Taylor sang for $2\frac{3}{8}$ hours. Who had more time, the saxophone players or the singers? How much more?

4. Steve bought $2\frac{3}{4}$ pounds of broccoli, $1\frac{1}{2}$ pounds of spinach, and $\frac{7}{8}$ pound of carrots. He also bought $2\frac{1}{2}$ pounds of apples and $2\frac{3}{8}$ pounds of oranges. Did he buy more fruit or more vegetables? How much more?

5. To get to school, Harley traveled $\frac{5}{6}$ mile along Arlington Avenue, then another $\frac{3}{8}$ mile along Forest Street. How long is his trip?

6. During a trip, Steve drove $\frac{1}{4}$ of the time, Chris drove $\frac{1}{6}$ of the time, and Doris drove the rest of the time. What fraction of the time did Doris drive?

7. Paolo noticed that Channel 8 devoted $\frac{1}{6}$ hour to a news story and Channel 12 devoted $\frac{1}{8}$ hour to the same story. Which channel devoted more time? How much more time?

TEST PREP

8. A recipe calls for $2\frac{1}{3}$ cups of milk plus enough water to make $3\frac{1}{4}$ cups of liquid. How much water is used in the recipe?

A $\frac{1}{3}$ c

C $5\frac{2}{7}$ c

B $\frac{11}{12}$ c

D $5\frac{7}{12}$ c

Skill 8

9. Find $3\frac{5}{8} + 1\frac{4}{5}$ in simplest form.

Skill 4

F $4\frac{9}{13}$

H $4\frac{17}{40}$

G $5\frac{9}{40}$

J $5\frac{17}{40}$

TASK 2

17. Stephanie used $2\frac{7}{8}$ feet of ribbon to trim a pillowcase and $5\frac{1}{2}$ feet of ribbon to trim a quilt. How much ribbon did she use in all? _____
18. A recipe calls for $1\frac{1}{4}$ cups of cheddar cheese, $1\frac{1}{3}$ cups of Monterey jack cheese, and $1\frac{1}{2}$ cups of mozzarella cheese. How much cheese is used in the recipe? _____

TEST PREP

19. Find the sum in simplest form:

$$6\frac{2}{3} + 2\frac{4}{9}$$

Skill 4

A $8\frac{1}{2}$

C $9\frac{1}{9}$

B $8\frac{3}{5}$

D $9\frac{1}{10}$

20. Kyle used $\frac{3}{5}$ yard of wire to hang one painting and $\frac{1}{4}$ yard of wire to hang another painting. How much wire did Kyle use in all?

Skill 3

F $\frac{1}{5}$ yd

H $\frac{4}{9}$ yd

G $\frac{3}{20}$ yd

J $\frac{17}{20}$ yd

TASK 3

SKILL 19: Practice**Solve each problem.**

1. A recipe for papaya ice cream calls for $\frac{1}{4}$ cup of lemon juice and $1\frac{1}{2}$ cups of ripe papaya. How much of each ingredient is needed to make $\frac{1}{2}$ of the recipe? _____
2. There are 48 people who have signed up to attend the midnight barbecue at the Rainbow Canyon Recreation Center. The chef wants to make enough burgers so that each person can have $1\frac{1}{2}$ burgers.
 - a. How many burgers should he make? _____
 - b. He uses $\frac{1}{4}$ pound of beef in each burger. How much ground beef should he order? _____
3. Marvin can do one load of laundry with $\frac{1}{16}$ box of laundry detergent. How many loads of laundry can he wash with 4 boxes of the detergent? _____
4. Adriana cuts 4 apples into eighths and 3 pears into sixths to make a fruit salad. How many pieces of apple and pear does she have in the salad? _____
5. There are 12 swings at the park. Of the swings, $\frac{3}{4}$ have plastic seats. One third of the plastic seats are green. How many of the swings have green seats? _____
6. Pietro used an eight-foot board to cut 3 shelves. Each shelf was $2\frac{1}{2}$ feet long.
 - a. How much board did the 3 shelves use? _____
 - b. How much, if any, wood did Pietro have left? _____

TEST PREP

7. Melissa has a piece of ribbon that is $1\frac{2}{3}$ feet long. She wants to cut it into 10 pieces, each the same length. How long should she cut each piece of the ribbon?

Skill 19

A $\frac{1}{6}$ ft

C $\frac{1}{3}$ ft

B $\frac{1}{5}$ ft

D 6 ft

8. Austin takes 1 quart of water on his hike. He drinks $\frac{1}{3}$ of the water going up the trail. He drinks $\frac{1}{4}$ of the water when he stops for lunch. How much water does he have left?

Skill 8

F $\frac{2}{7}$ qt

H $\frac{5}{12}$ qt

G $\frac{5}{7}$ qt

J $\frac{7}{12}$ qt

SKILL 18: Practice**Divide. Simplify each quotient.**

1. $1\frac{4}{5} \div \frac{1}{3} =$ _____

2. $1\frac{2}{3} \div \frac{1}{8} =$ _____

3. $3\frac{4}{7} \div 3\frac{1}{2} =$ _____

4. $3\frac{4}{5} \div 1\frac{5}{7} =$ _____

5. $\frac{2}{5} \div 4\frac{3}{5} =$ _____

6. $4\frac{1}{8} \div \frac{3}{7} =$ _____

7. $2\frac{1}{2} \div 4\frac{2}{5} =$ _____

8. $2\frac{4}{5} \div 7 =$ _____

9. $\frac{5}{6} \div 1\frac{3}{4} =$ _____

10. $\frac{1}{3} \div 2\frac{1}{6} =$ _____

11. $1\frac{4}{9} \div \frac{6}{7} =$ _____

12. $1\frac{3}{4} \div \frac{4}{5} =$ _____

13. $5 \div 3\frac{1}{4} =$ _____

14. $2\frac{1}{4} \div 3\frac{4}{9} =$ _____

15. $4\frac{2}{7} \div 1\frac{1}{6} =$ _____

16. $\frac{8}{9} \div 2\frac{5}{7} =$ _____

17. $1\frac{1}{4} \div 2\frac{2}{3} =$ _____

18. $\frac{1}{4} \div 1\frac{5}{9} =$ _____

19. $2\frac{1}{4} \div 2\frac{1}{4} =$ _____

20. $1\frac{7}{8} \div 1\frac{1}{4} =$ _____

21. $1\frac{3}{4} \div \frac{1}{5} =$ _____

22. $4\frac{2}{7} \div 1\frac{1}{2} =$ _____

23. $5\frac{1}{7} \div 2\frac{1}{2} =$ _____

24. $1\frac{1}{9} \div 3 =$ _____

25. $1 \div 3\frac{5}{7} =$ _____

26. $1\frac{1}{3} \div 1\frac{2}{3} =$ _____

27. $1\frac{1}{2} \div 2\frac{3}{4} =$ _____

Solve.

28. Tom made $2\frac{1}{2}$ batches of cookies. He used $6\frac{2}{3}$ cups of flour. How much flour is used to make 1 batch?
- _____

29. Sonya has $3\frac{1}{3}$ yards of fabric that she wants to cut into 6 pieces of the same length. How long should she cut each piece?
- _____

TEST PREP

30. Find
- $1\frac{1}{6} \div 2\frac{3}{4}$
- in simplest form.

Skill 18

A $\frac{7}{11}$

C $2\frac{5}{14}$

B $\frac{14}{33}$

D $3\frac{5}{24}$

31. Find
- $8\frac{1}{5} - 6\frac{3}{5}$
- in simplest form.

Skill 6

F $1\frac{2}{5}$

H $2\frac{2}{5}$

G $1\frac{3}{5}$

J $2\frac{3}{5}$