LESSON 2-9 **Practice B**

Equivalent Fractions and Mixed Numbers

Find a fraction equivalent to the given fraction.

1. $\dfrac{2}{9}$ _____

2. $\dfrac{8}{15}$ _____

3. $\dfrac{7}{8}$ _____

4. $\dfrac{16}{24}$ _____

5. $\dfrac{12}{20}$ _____

6. $\dfrac{9}{12}$ _____

Determine whether the fractions in each pair are equivalent.

7. $\dfrac{8}{10}$ and $\dfrac{12}{15}$

8. $\dfrac{6}{8}$ and $\dfrac{8}{12}$

9. $\dfrac{3}{9}$ and $\dfrac{4}{8}$

_____   _____   _____

10. $\dfrac{7}{4}$ and $\dfrac{9}{5}$

11. $\dfrac{15}{12}$ and $\dfrac{20}{16}$

12. $\dfrac{15}{9}$ and $\dfrac{30}{18}$

_____   _____   _____

Write each as a mixed number.

13. $\dfrac{21}{8}$ _____

14. $\dfrac{37}{4}$ _____

15. $\dfrac{16}{5}$ _____

16. $\dfrac{49}{9}$ _____

Write each as an improper fraction.

17. $8\dfrac{2}{3}$ _____

18. $1\dfrac{7}{12}$ _____

19. $25\dfrac{3}{4}$ _____

20. $7\dfrac{5}{6}$ _____

21. Maria's desk is $33\dfrac{3}{4}$ inches long. Write this number as an improper fraction.

_____

22. Leon walked $\dfrac{5}{8}$ mile. Liz walked $\dfrac{10}{16}$ mile. Did they walk the same distance?

_____

Problem Solving
Equivalent Fractions and Mixed Numbers

Write the correct answer.

1. Bert bicycles 136 miles each week. If he bikes the same distance daily and bikes each day of the week, how many miles does he bike each day? Write your answer as a mixed number.

   _____

2. The Eiffel Tower in Paris, France, was designed so well that even in the highest winds the tower never sways more than $4\frac{1}{2}$ inches. Write two fractions that are equivalent to $4\frac{1}{2}$.

   _____

3. In October 2000, almost 13 inches of rain fell in Miami, Florida, in a 24-hour period. Write a fraction that shows about how many $\frac{1}{4}$ inches of rain fell on that one day.

   _____

4. Elena is 58 inches tall. Write a mixed number to represent her height in feet.

   _____

Choose the letter for the best answer.

5. Randi runs 48 miles each week. She runs the same distance daily and runs each day of the week. How many miles does she run each day? Write your answer as a mixed number.

   A $6\frac{6}{7}$ miles

   B $6\frac{5}{6}$ miles

   C $6\frac{7}{48}$ miles

   D $7\frac{1}{7}$ miles

6. A bakery used $4\frac{3}{4}$ cups of salt to make 120 loaves of sourdough bread. Write a fraction that shows how many $\frac{1}{4}$ cups of salt were used to make the bread.

   F $\frac{30}{4}$ cups

   G $\frac{24}{4}$ cups

   H $\frac{12}{4}$ cups

   J $\frac{19}{4}$ cups

7. One of the driest summers in the Northeast was in 1909, with $\frac{896}{100}$ inches of precipitation. Which mixed number is equivalent to $\frac{896}{100}$?

   A $89\frac{6}{10}$

   B $8\frac{96}{10}$

   C $8\frac{24}{25}$

   D $8\frac{4}{5}$

8. The Central Ohio Transit Authority has $957\frac{3}{5}$ miles of routes. Which fraction is equivalent to $957\frac{3}{5}$?

   F $\frac{4,781}{5}$

   G $\frac{4,788}{5}$

   H $\frac{4,783}{5}$

   J $\frac{9,573}{5}$

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