Lesson 7.9

Multiply Mixed Numbers

Find the product. Write the product in simplest form.

1. \( \frac{2}{3} \times \frac{4}{5} \)
2. \( \frac{1}{7} \times \frac{13}{4} \)
3. \( \frac{8}{3} \times \frac{3}{5} \)
4. \( \frac{5}{8} \times \frac{1}{3} \)

\( \frac{2}{3} \times \frac{4}{5} = \frac{5}{3} \times \frac{22}{5} \)

\( = \frac{110}{15} = \frac{22}{3} \)

\( = \frac{7}{3} \)

5. \( \frac{1}{2} \times \frac{3}{3} \)
6. \( \frac{7}{5} \times \frac{2}{6} \)
7. \( \frac{2}{3} \times \frac{4}{5} \)
8. \( \frac{2}{5} \times \frac{1}{4} \)

Use the Distributive Property to find the product.

9. \( \frac{4}{5} \times 10 \)
10. \( 26 \times \frac{2}{2} \)
11. \( 6 \times \frac{2}{3} \)

Problem Solving

12. Jake can carry \( 6\frac{1}{4} \) pounds of wood in from the barn. His father can carry \( 1\frac{3}{4} \) times as much as Jake. How many pounds can Jake’s father carry?

13. A glass can hold \( 3\frac{1}{3} \) cups of water. A bowl can hold \( 2\frac{3}{5} \) times the amount in the glass. How many cups can a bowl hold?
Lesson Check (CC.5.NF.6)

1. A vet weighs two puppies. The small puppy weighs $4\frac{1}{2}$ pounds. The large puppy weighs $4\frac{2}{3}$ times as much as the small puppy. How much does the large puppy weigh?
   
   A. $16\frac{1}{6}$ pounds  
   B. 19 pounds  
   C. 21 pounds  
   D. 25 pounds

2. Becky lives $5\frac{5}{8}$ miles from school. Steve lives $1\frac{3}{4}$ times as far from school as Becky. How far does Steve live from school?
   
   A. 12 miles  
   B. $8\frac{3}{4}$ miles  
   C. 6 miles  
   D. $5\frac{3}{16}$ miles

Spiral Review (CC.5.OA.2, CC.5.NBT.6, CC.5.NF.1, CC.5.NF.2)

3. Craig scored 12 points in a game. Marla scored twice as many points as Craig but 5 fewer points than Nelson scored. How many points did Nelson score? (Lesson 1.10)
   
   A. $2 \times 12 + 5$  
   B. $2 \times 12 - 5$  
   C. $\frac{1}{2} \times 12 + 5$  
   D. $2 \times (12 + 5)$

4. Yvette earned $66.00$ for 8 hours of work. Lizbeth earned $68.80$ working the same amount of time. How much more per hour did Lizbeth earn than Yvette earned? (Lesson 5.4)
   
   A. $0.35$  
   B. $0.45$  
   C. $2.80$  
   D. $8.25$

5. What is the least common denominator of the four fractions listed below? (Lesson 6.4)
   
   $\frac{20}{7\frac{1}{10}}$, $\frac{20}{4}$, $\frac{18}{9\frac{9}{10}}$, $\frac{20}{25}$
   
   A. 2  
   B. 40  
   C. 50  
   D. 100

6. Three girls searched for geodes in the desert. Corinne collected $11\frac{3}{8}$ pounds, Ellen collected $4\frac{3}{8}$ pounds, and Leona collected $3\frac{3}{8}$ pounds. How much more did Corinne collect than the other two girls combined? (Lesson 6.6)
   
   A. $2\frac{1}{2}$ pounds  
   B. $2\frac{3}{4}$ pounds  
   C. $2\frac{7}{8}$ pounds  
   D. $3\frac{3}{4}$ pounds