Name

LESSON 16.4
More Practice/ Homework

ONLINE
Video Tutorials and Interactive Examples

Solve Problems Using Multiplication of a Fraction or Mixed Number by a Whole Number

1 **Art** An artist uses $2\frac{7}{10}$ liters of water for each batch of pottery clay that she makes. How many liters of water does she use for 7 batches of pottery clay?

2 **Open Ended** Write a story problem that could be modeled by the multiplication equation $4 \times 2\frac{3}{5} = n$. Then solve it.

3 MP **Reason** William has 5 books in his backpack and 3 books in a book bag. If each book weighs $1\frac{1}{4}$ pounds, how many pounds do the books weigh? Explain how you know.

Find the product. If possible, write your answer as a mixed number.

4 $3 \times 2\frac{3}{10} =$ _____

5 $5 \times 3\frac{5}{12} =$ _____

6 $4 \times 1\frac{1}{3} =$ _____

7 $2 \times 5\frac{3}{4} =$ _____

8 $7 \times 3\frac{3}{8} =$ _____

9 $9 \times 2\frac{1}{2} =$ _____

Test Prep

10 Dell cares for 3 flowerbeds in one yard and 2 flowerbeds in another yard. He uses $2\frac{2}{3}$ gallons of plant food in each flowerbed. How much plant food does he use in the flowerbeds?

Ⓐ $1\frac{1}{3}$ gallons

Ⓑ $4\frac{1}{3}$ gallons

Ⓒ $10\frac{1}{3}$ gallons

Ⓓ $13\frac{1}{3}$ gallons

11 Frieda gives each sheep $1\frac{3}{4}$ scoops of feed each day. How many scoops does she use for 4 sheep? Select all the equations that could be used to determine how many scoops.

Ⓐ $4 \times 1\frac{3}{4} = \blacksquare$

Ⓑ $\frac{7}{4} + \frac{7}{4} + \frac{7}{4} + \frac{7}{4} = \blacksquare$

Ⓒ $4 \div 1\frac{3}{4} = \blacksquare$

Ⓓ $4 \times \frac{7}{4} = \blacksquare$

12 Kai uses $2\frac{1}{12}$ feet of string to make a bead necklace. How much string does Kai need for 5 necklaces?

Ⓐ $2\frac{5}{12}$ feet

Ⓑ $5\frac{1}{12}$ feet

Ⓒ $10\frac{5}{12}$ feet

Ⓓ $12\frac{5}{12}$ feet

Spiral Review

13 Rename each fraction so the pair of fractions have a common numerator.

$\frac{3}{5}$ and $\frac{5}{8}$: _____

14 Find a number that makes the statement true.

$\frac{1}{4} > \frac{\square}{6}$