

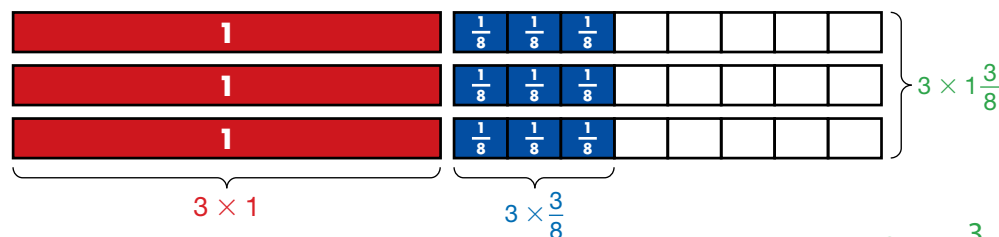
# Homework & Practice 10-4

## Multiply a Whole Number and a Mixed Number

### Another Look!

How much flour does it take to make 3 dozen rolls if 1 dozen rolls uses  $1\frac{3}{8}$  cups of flour?

Find  $3 \times 1\frac{3}{8}$ .



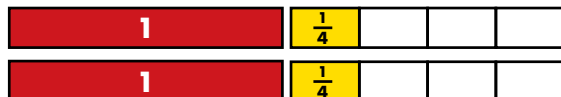
You can use the Distributive Property to multiply whole numbers and mixed numbers.

$$\begin{aligned}
 3 \times 1\frac{3}{8} &= 3 \times \left(1 + \frac{3}{8}\right) \\
 &= (3 \times 1) + \left(3 \times \frac{3}{8}\right) \\
 &= 3 + \frac{9}{8} \\
 &= 3 + 1\frac{1}{8} \\
 &= 4\frac{1}{8}
 \end{aligned}$$

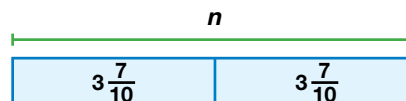
It takes  $4\frac{1}{8}$  cups of flour to make 3 dozen rolls.

For 1–14, find each product. Use fraction strips or bar diagrams if needed.

1.  $2 \times 1\frac{1}{4}$



2.  $2 \times 3\frac{7}{10}$



3.  $4 \times 2\frac{5}{8}$

4.  $3 \times 2\frac{5}{6}$

5.  $8 \times 1\frac{2}{3}$

6.  $2 \times 5\frac{4}{5}$

7.  $3 \times 1\frac{1}{2}$

8.  $6 \times 2\frac{2}{3}$

9.  $4 \times 2\frac{3}{4}$

10.  $7 \times 3\frac{1}{5}$

11.  $4 \times 1\frac{5}{6}$

12.  $9 \times 3\frac{5}{8}$

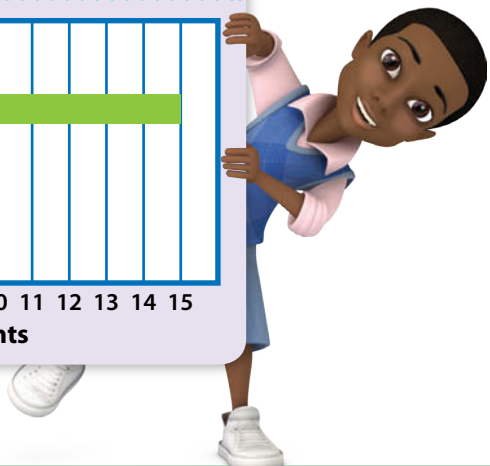
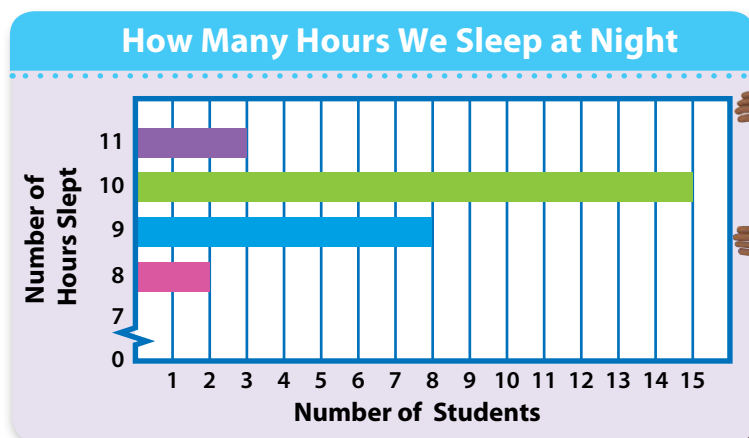
13.  $12 \times 1\frac{6}{10}$

14.  $8 \times 2\frac{3}{12}$

For 15–16, use the table at the right. Remember, 60 minutes = 1 hour.

15. How many students slept 540 or more minutes at night?

16. How many students slept 540 or less minutes at night?

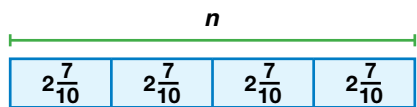


17. **MP.1 Make Sense and Persevere**  
Meg runs  $1\frac{1}{2}$  miles and walks  $2\frac{1}{4}$  miles each day of the week. How far does Meg run and walk in all each week? Explain. Remember, you can write an equivalent fraction for  $1\frac{1}{2}$ .

18. **Higher Order Thinking** Which do you think is greater,  $4 \times 3\frac{2}{5}$  or  $3 \times 4\frac{2}{5}$ ? How can you tell without multiplying? Explain.

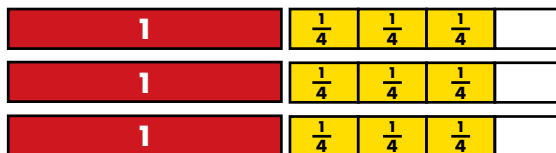
**Common Core Assessment**

19. Tamika swims  $2\frac{7}{10}$  kilometers a day, 4 days a week. How far does she swim each week? Find  $4 \times 2\frac{7}{10}$ .



- (A)  $10\frac{8}{10}$  kilometers
- (B)  $10\frac{4}{10}$  kilometers
- (C)  $9\frac{8}{10}$  kilometers
- (D)  $8\frac{8}{10}$  kilometers

20. Mary has 3 packages of hamburger that weigh  $1\frac{3}{4}$  pounds each. What is the total weight of the hamburger?



- (A)  $2\frac{1}{4}$  pounds
- (B)  $3\frac{3}{4}$  pounds
- (C)  $4\frac{1}{2}$  pounds
- (D)  $5\frac{1}{4}$  pounds