

G4-M5-Lesson 38

1. Fill in the unknown factors.

a. $7 \times 3\frac{4}{5} = (\underline{7} \times 3) + (\underline{7} \times \frac{4}{5})$

b. $6 \times 4\frac{3}{8} = (6 \times \underline{4}) + (6 \times \frac{3}{8})$

The mixed number is distributed as the whole and the fraction. Both of the distributed numbers have to be multiplied by 7, so 7 is the missing factor.

2. Multiply. Use the distributive property.

$5 \times 7\frac{3}{5}$

7	$\frac{3}{5}$	7	$\frac{3}{5}$	7	$\frac{3}{5}$	7	$\frac{3}{5}$	7	$\frac{3}{5}$
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$$\begin{aligned} 5 \times 7\frac{3}{5} &= 35 + \frac{15}{5} \\ &= 35 + 3 \\ &= 38 \end{aligned}$$

I break apart $7\frac{3}{5}$ into 7 and $\frac{3}{5}$. 5 sevens equals 35, and 5 copies of 3 fifths equals 15 fifths, or 3.

3. Amina's dog ate
- $2\frac{2}{3}$
- cups of dog food each day for three weeks. How much dog food did Amina's dog eat during the three weeks?

There are 7 days in a week. To find the number of days in 3 weeks, I multiply 7×3 . There are 21 days in 3 weeks.

$$\begin{aligned} 21 \times 2\frac{2}{3} &= 42 + \frac{42}{3} \\ &= 42 + 14 \\ &= 56 \end{aligned}$$

Amina's dog ate 56 cups of food during the three weeks.