



# Work with Mixed Numbers

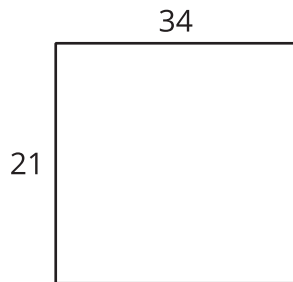
Let's use what we've learned to multiply mixed numbers.

## Warm-up

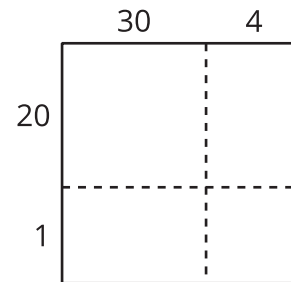
### Notice and Wonder: Comparing Diagrams

What do you notice? What do you wonder?

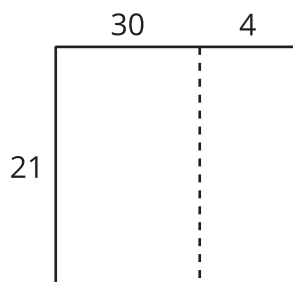
**A**



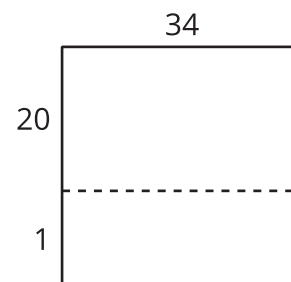
**B**



**C**



**D**

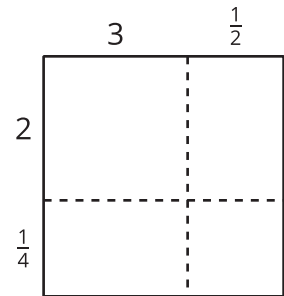
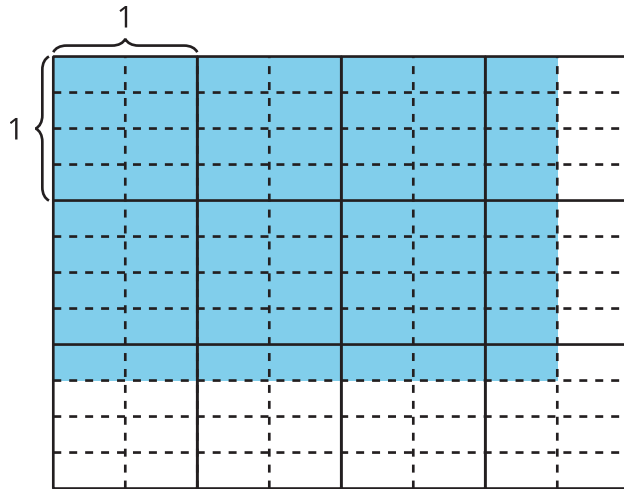


## Activity 1

### Different Ways to Find a Product

1. Find the value of  $2\frac{1}{4} \times 3\frac{1}{2}$ . Show or explain your reasoning.

2. Lin and Han draw diagrams to find the value of  $2\frac{1}{4} \times 3\frac{1}{2}$ .



a. How are Lin's and Han's diagrams alike? How are they different?

---

---

---

---

---

---

---

---

b. Discuss how to use each diagram to find the value of  $2\frac{1}{4} \times 3\frac{1}{2}$ .

3. Here is Jada's way to multiply  $2\frac{1}{4} \times 3\frac{1}{2}$ .

I know that 2 is  $\frac{8}{4}$ , so  $2\frac{1}{4}$  is  $\frac{9}{4}$ .

I also know that 3 is  $\frac{6}{2}$ , so  $3\frac{1}{2}$  is  $\frac{7}{2}$ .

$$\frac{9}{4} \times \frac{7}{2} = \frac{63}{8}$$

Compare the different ways to find the value of  $2\frac{1}{4} \times 3\frac{1}{2}$ .

How are they alike? How are they different?

---

---

---

---

---

---

---

---

---



## Activity 2

### Products Everywhere

Choose any 3 expressions. Find the value of each product. Explain or show your reasoning.

1.  $3\frac{1}{4} \times 2\frac{2}{3}$

2.  $5\frac{3}{10} \times 1\frac{7}{10}$

3.  $2\frac{1}{2} \times 4\frac{1}{2}$

4.  $2\frac{2}{5} \times 5\frac{1}{2}$

