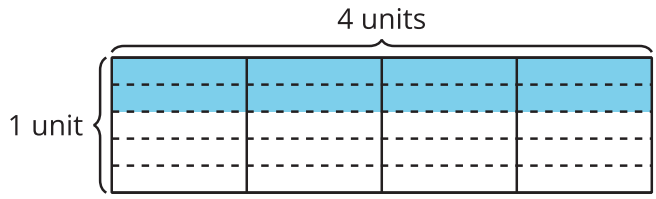
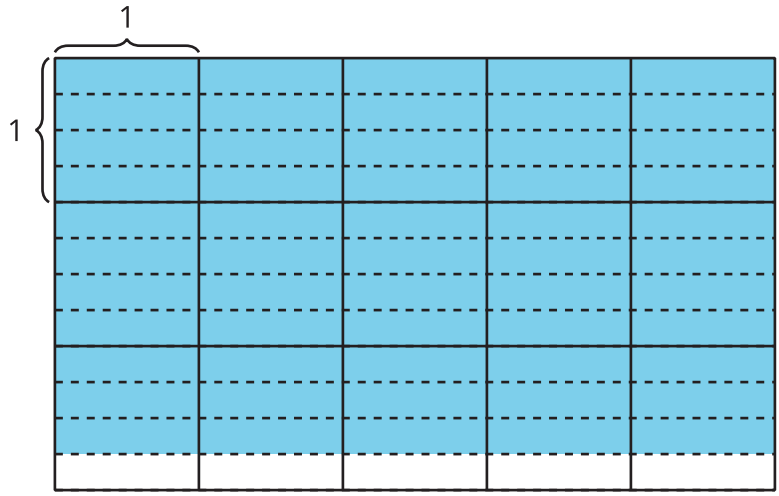
Fractions as Quotients and Fraction Multiplication: End-of-Unit Assessment

1. Find the area of the shaded region. Explain or show your reasoning.



2. Select **all** of the expressions that represent the area of the shaded region.



A. $(5 \times 3) - \left(5 \times \frac{1}{4}\right)$

B. 5×11

C. $\frac{11}{4} \times 5$

D. $55 \times \frac{1}{4}$

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

F. $5 \times 2 + \frac{5}{4}$

3. There are 8 ounces of pasta in the package. Jada cooks $\frac{2}{3}$ of the pasta. How many ounces of pasta did Jada cook?

   A. $2\frac{2}{3}$

   B. $5\frac{1}{3}$

   C. $7\frac{1}{3}$

   D. 12

4. A piece of string is 18 inches long. Jada cuts it into 4 equal parts. What is the length of each part in inches? Select **all** that apply.

   A. $\frac{4}{18}$

   B. $4 \div 18$

   C. $\frac{18}{4}$

   D. $18 \div 4$

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

5. A hiking trail is 7 miles long. Han hikes $\frac{1}{2}$ of the trail and then stops for water. Jada hikes $\frac{2}{3}$ of the trail and then stops for water.

   a. How many miles did Han hike before stopping for water? Explain or show your reasoning.

   b. How many miles did Jada hike before stopping for water? Explain or show your reasoning.

6. Find the value of each expression.

   a. $\frac{1}{7} \times 28$

   b. $15 \times 3\frac{2}{5}$

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

   d. $3\frac{9}{10} \times 4$

7. A farm is rectangular in shape. It is 2 km long and 3 km wide.

   a. What is the area of the farm? Explain or show your reasoning.

   b. The farm is divided into 5 equal parts. Corn is grown in one of the parts. Draw a diagram to show where the corn is grown.

   c. What is the area of the part of the farm where corn is grown? Explain or show your reasoning.