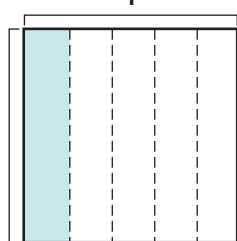



# Using Area to Multiply Fractions

NCTM Standards 1, 4, 7, 9, 10

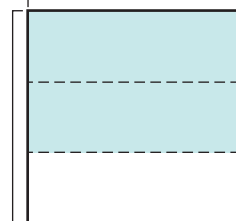
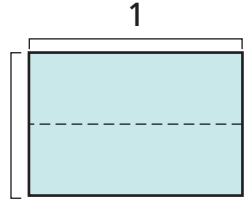
Fill in the blanks and find the shaded areas to multiply the fractions.

1

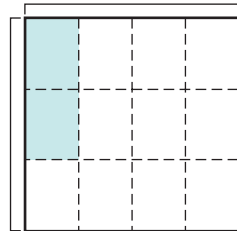

$$\frac{1}{5} \times 1 = \square$$

2

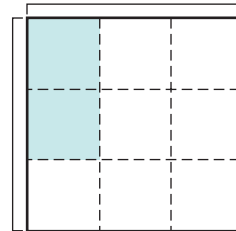
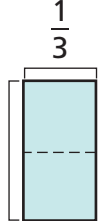
$$1 \times \frac{2}{3} = \square$$

3

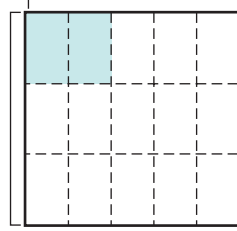
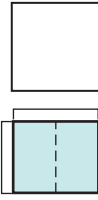
$$\frac{1}{4} \times \frac{2}{3} = \square$$

4

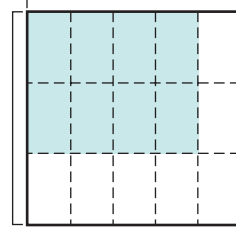
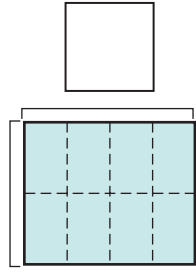
$$\frac{1}{3} \times \frac{2}{3} = \square$$

5

$$\square \times \frac{1}{3} = \square$$

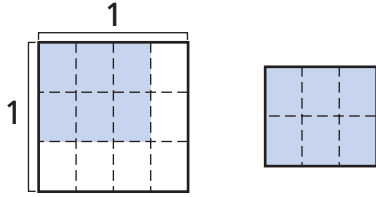
6

$$\square \times \frac{2}{3} = \square$$

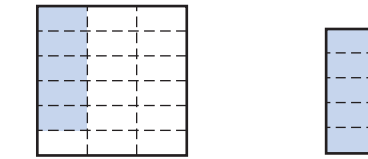
Complete each sentence and find the shaded areas to multiply the fractions.

7



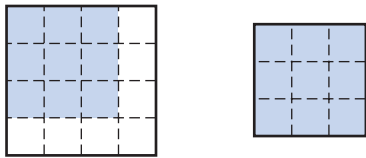
$$\frac{3}{4} \times \square = \square$$

8



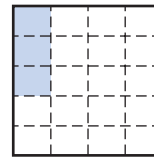
$$\square \times \frac{5}{6} = \square$$

9



$$\square \times \square = \square$$

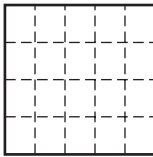
10



$$\square \times \square = \square$$

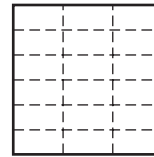
Shade the indicated areas and complete the sentences to multiply the factors.

11



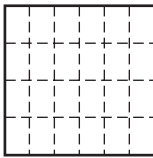
$$\frac{2}{5} \times \frac{3}{4} = \square$$

12



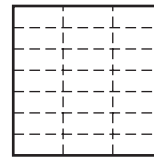
$$\frac{2}{3} \times \frac{5}{6} = \square$$

13



$$\frac{5}{6} \times \frac{3}{4} = \square$$

14



$$\frac{2}{3} \times \frac{4}{7} = \square$$

### Challenge

$$\text{15 } \frac{4}{7} \times \square = \frac{8}{21} \quad \text{16 } \frac{6}{7} \times \square = \frac{12}{35} \quad \text{17 } \frac{4}{5} \times \square = \frac{18}{25}$$