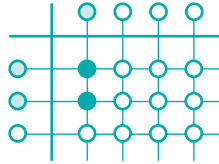


Using Other Models to Multiply Fractions

NCTM Standards 1, 7, 10

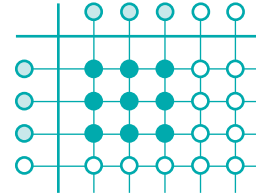
Use the sketches to help you complete the number sentences.

1



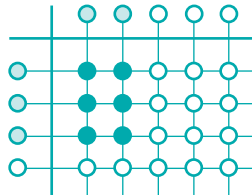
$$\frac{1}{4} \times \frac{2}{3} = \boxed{\frac{2}{12}} \text{ or } \boxed{\frac{1}{6}}$$

2



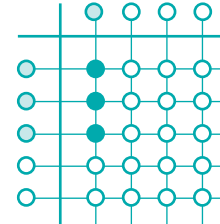
$$\frac{3}{5} \times \frac{3}{4} = \boxed{\phantom{\frac{\quad}{\quad}}}$$

3



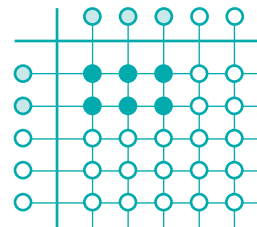
$$\boxed{\phantom{\frac{\quad}{\quad}}} \times \frac{3}{4} = \boxed{\phantom{\frac{\quad}{\quad}}} \text{ or } \boxed{\phantom{\frac{\quad}{\quad}}}$$

4



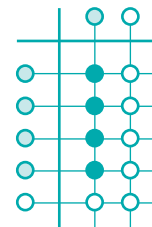
$$\frac{1}{4} \times \boxed{\phantom{\frac{\quad}{\quad}}} = \boxed{\phantom{\frac{\quad}{\quad}}}$$

5



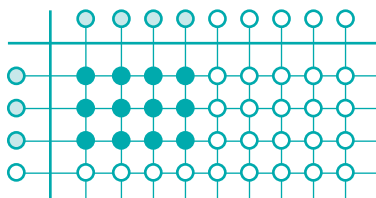
$$\boxed{\phantom{\frac{\quad}{\quad}}} \times \boxed{\phantom{\frac{\quad}{\quad}}} = \boxed{\phantom{\frac{\quad}{\quad}}}$$

6



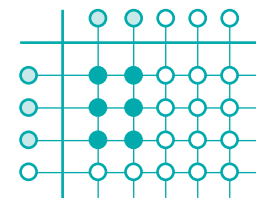
$$\boxed{\phantom{\frac{\quad}{\quad}}} \times \boxed{\phantom{\frac{\quad}{\quad}}} = \boxed{\phantom{\frac{\quad}{\quad}}} \text{ or } \boxed{\phantom{\frac{\quad}{\quad}}}$$

7



$$\frac{4}{9} \times \frac{3}{4} = \boxed{\phantom{\frac{\quad}{\quad}}} \text{ or } \boxed{\phantom{\frac{\quad}{\quad}}}$$

8



$$\frac{2}{5} \times \frac{3}{4} = \boxed{\phantom{\frac{\quad}{\quad}}} \text{ or } \boxed{\phantom{\frac{\quad}{\quad}}}$$

Draw dot sketches to show multiplication of fractions.
Complete the number sentences.

9

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

10

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

11

$$\frac{2}{5} \times \frac{3}{7} = \square$$

12

$$\frac{5}{6} \times \frac{1}{3} = \square$$

13

$$\frac{4}{5} \times \frac{3}{4} = \square \text{ or } \square$$

14

$$\frac{5}{6} \times \frac{1}{5} = \square \text{ or } \square$$

15 Challenge Find different solutions.

$$\square \times \square = \frac{5}{12} \quad \square \times \square = \frac{5}{12} \quad \square \times \square = \frac{5}{12}$$

$$\square \times \square = \frac{5}{12} \quad \square \times \square = \frac{5}{12} \quad \square \times \square = \frac{5}{12}$$