

Multiplying Fractions by Whole Numbers

Use the diagrams to help you solve the equations below. You do not need to simplify your answers.

Example:

$$\frac{1}{3} \times 4 = \begin{array}{|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|c|} \hline \text{shaded} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\frac{4}{3}}$$

$$1. \quad \frac{1}{2} \times 5 = \begin{array}{|c|c|} \hline \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|} \hline \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|} \hline \text{shaded} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$2. \quad \frac{1}{4} \times 2 = \begin{array}{|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$3. \quad \frac{1}{3} \times 3 = \begin{array}{|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{shaded} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$4. \quad \frac{1}{6} \times 4 = \begin{array}{|c|c|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{shaded} & \text{shaded} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$5. \quad \frac{1}{3} \times 2 = \begin{array}{|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$6. \quad \frac{1}{4} \times 6 = \begin{array}{|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$7. \quad \frac{1}{2} \times 3 = \begin{array}{|c|c|} \hline \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|} \hline \text{shaded} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$8. \quad \frac{1}{8} \times 2 = \begin{array}{|c|c|c|c|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} & \text{white} & \text{white} & \text{white} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$9. \quad \frac{1}{6} \times 2 = \begin{array}{|c|c|c|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} & \text{white} & \text{white} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$

$$10. \quad \frac{1}{3} \times 5 = \begin{array}{|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{shaded} \\ \hline \end{array} \begin{array}{|c|c|c|} \hline \text{shaded} & \text{shaded} & \text{white} \\ \hline \end{array} = \boxed{\phantom{\frac{}{}}}$$