

Multiplying Fractions by Whole Numbers

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

Example:

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

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

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

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

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

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

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

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

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

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

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