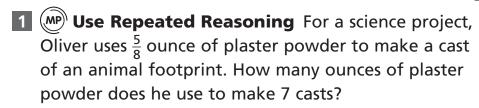
ONLINE Video Tutorials and Interactive Examples

Represent Multiplication of a Fraction by a Whole Number





- **Open Ended** Write and solve a story problem that can be modeled by the equation $11 \times \frac{2}{5} = n$.
- **STEM** When first born, a wolf pup weighs about $\frac{3}{4}$ pound. One mother wolf has 5 pups and another has 6 pups. About how many pounds do all the pups weigh? Explain how you know.
- 4 Math on the Spot Patty has 2 cups of warm water. Is that enough water to make 4 batches of sidewalk chalk? Explain how you know without finding the exact product.

Sidewalk Chalk Recipe

 $\frac{3}{4}$ cup warm water

 $1\frac{1}{2}$ cups plaster of Paris

 $2\frac{2}{3}$ tablespoons powdered paint

Find the product. Write your answer as a fraction.

5
$$8 \times \frac{7}{10} =$$

6
$$7 \times \frac{3}{5} =$$

$$7 \ 6 \times \frac{2}{3} =$$

8 3
$$\times \frac{7}{8}$$
 =

9 4
$$\times \frac{3}{10} =$$

10 5
$$\times \frac{3}{2}$$
 =

Test Prep

- 11 Alicia uses $\frac{7}{8}$ gallon of water for each batch of pottery clay she mixes. How many gallons of water does she use for 9 batches of pottery clay?

- 12 Frank cuts a board into equal-sized pieces that are $\frac{3}{4}$ foot long. If he was able to cut exactly 8 pieces from the board with nothing left over, how long was the board?
 - \triangle $\frac{24}{32}$ foot
- \bigcirc $\frac{24}{4}$ feet
- \bigcirc $\frac{11}{4}$ feet
- \bigcirc $\frac{24}{4}$ feet \bigcirc $\frac{32}{4}$ feet
- 13 Charlene collects rainwater to water her indoor plants. Each of her collection containers holds $\frac{11}{12}$ gallon of water. How much water can she collect with 8 containers?
 - \bigcirc 3/12 gallon
- \bigcirc $\frac{19}{12}$ gallons
- \bigcirc B $\frac{88}{96}$ gallon \bigcirc D $\frac{88}{12}$ gallons

Spiral Review

- 14 Are the fractions $\frac{3}{4}$ and $\frac{6}{8}$ equivalent? How do you know?
- 15 Generate two equivalent fractions for the given fraction.

$$\frac{10}{12} = \frac{}{} = \frac{}{}$$