

Name: _____

Multiplying Fractions by Whole Numbers

Directions: Carefully read each question, identify the key information, show all of your work, and circle your final answer.

1.) A concrete mixer can dump $\frac{3}{8}$ of a ton of concrete in an hour. How many tons of concrete can 6 concrete mixers dump in 2 hours?



2.) It takes a month to build $\frac{5}{28}$ of an apartment building. What fraction of the apartment building will be completed after 3 months?



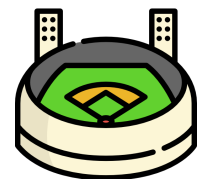
3.) A gallon of paint can cover $\frac{3}{25}$ of an exterior wall. How much of the exterior wall can be painted using 8 gallons of paint?



4.) To cement a parking lot area, $\frac{3}{8}$ of a bag of cement and $2\frac{1}{4}$ bags of asphalt are needed to cover one square meter of the parking lot. If the driveway area is 10 square meters large, how many bags of cement will be needed? (express your answer as a mixed number)



5.) If a construction company takes a year to build $\frac{4}{7}$ of a new baseball stadium and $1\frac{1}{3}$ years to build a new water park, how many baseball stadiums can they build in 6 years? (express your answer as a mixed number)



ANSWER KEY

$$1.) \frac{3}{8}(8 \times 2) = \frac{3}{8}(16) = \frac{48}{8} = 6$$

8 concrete mixers can dump 6 tons of concrete in 2 hours

$$2.) \frac{5}{28} \times 3 = \frac{15}{28}$$

$\frac{15}{28}$ of the apartment building will be completed after 3 months

$$3.) \frac{3}{25} \times 8 = \frac{24}{25}$$

$\frac{24}{25}$ of the exterior wall can be painted using 8 gallons of paint.

$$4.) \frac{3}{8} \times 10 = \frac{30}{8} = \frac{15}{4} = 3\frac{3}{4}$$

$3\frac{3}{4}$ bags of cement will be needed to cover 10 square meters.

$$5.) \frac{4}{7} \times 6 = \frac{24}{7} = 3\frac{3}{7}$$

They can build $3\frac{3}{7}$ baseball stadiums in 6 years.