Multiplying fractions by whole numbers

Grade 4 Word Problems Worksheet

1. A professional miner can dig $\frac{3}{8}$ meter in an hour. How many meters can 8 professional miners dig in 2 hours?

2. It takes a week to build $\frac{3}{38}$ of a 2-storey house. How much of the house will be done after 8 weeks?

3. A gallon of paint can cover $\frac{2}{25}$ of the wall. How much of the wall will be painted if there were 5 gallons of paint?

4. John is cementing the driveway. $\frac{2}{3}$ of a bag of cement and $2\frac{1}{3}$ bags of sand are needed to cover a meter of the driveway. If John's driveway is 10 meters long, how many bags of cement will he need to use?

5. It took John a week to build $\frac{3}{4}$ of his fence and $6\frac{1}{4}$ hours to paint the front of the house. How many fences would he be able to make in 5 weeks?

6. Home builders can build $\frac{9}{10}$ of a 10-storey building in a year. How many houses would they be able to build in 7 years?

Answers

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

    8 professional miners can dig 6 meters in 2 hours.

2. $\frac{3}{38} \times 8 = \frac{24}{38} = \frac{12}{19}$

    $\frac{12}{19}$ of the 2-storey house will be done in 8 weeks.

3. $\frac{2}{25} \times 5 = \frac{10}{25} = \frac{2}{5}$

    $\frac{2}{5}$ of the wall will be painted with 5 gallons of paint.

4. $\frac{2}{3} \times 10 = \frac{20}{3} = 6\frac{2}{3}$

    So, he needs to use $6\frac{2}{3}$ bags of cement to finish the driveway.

5. $\frac{3}{4} \times 5 = \frac{15}{4} = 3\frac{3}{4}$

    $3\frac{3}{4}$ is between 3 and 4.

    So, John could make 4 fences in 5 weeks.

6. $\frac{9}{10} \times 7 = \frac{63}{10} = 6\frac{3}{10}$

    $6\frac{3}{10}$ is between 6 and 7.

    So, the Home Builders could build six 10-storey buildings in 7 years.