Multiplying fractions by whole numbers

Grade 4 Word Problems Worksheets

Read and answer each question:

1. Each book of a series is \( \frac{5}{8} \) inch thick. If there are 5 books in the series, how thick is the series?

2. It takes a week to build \( \frac{2}{35} \) of a bridge. How much of the bridge will be done after 10 weeks?

3. It takes one minute for Jay to swim \( \frac{3}{5} \) of a lap of the swimming pool. How many laps can he swim in 15 minutes?

4. Emily is having a bad cold. She uses up \( \frac{3}{5} \) of a box of tissues every day. How many boxes of tissues does she need to buy if she expects the cold to last for 7 days? How many boxes does she need to buy so she doesn’t run out of tissues?

5. A famous writer writes \( \frac{3}{11} \) of a book in a year. How many books can he completely finish in 8 years?
Answers

1. \( \frac{5}{8} \times 5 = \frac{25}{8} = 3 \frac{1}{8} \)

   The series is 3 \( \frac{1}{8} \) inches thick.

2. \( \frac{2}{35} \times 10 = \frac{20}{35} = \frac{4}{7} \)

   \( \frac{4}{7} \) of the bridge will be done after 10 weeks.

3. \( \frac{3}{5} \times 15 = 9 \)

   He can swim 9 laps in 15 minutes.

4. \( \frac{3}{5} \times 7 = \frac{21}{5} = 4 \frac{1}{5} \)

   4 \( \frac{1}{5} \) is between 4 and 5.
   So, Emily needs to buy 5 boxes of tissues.

5. \( \frac{3}{11} \times 8 = \frac{24}{11} = 2 \frac{2}{11} \)

   2 \( \frac{2}{11} \) is between 2 and 3.
   So, he can finish 2 books in 8 years.