Fraction multiplication word problems

Grade 5 Word Problems Worksheet

1. Rocky finished a 200-meter race in $\frac{5}{12}$ of a minute. The winner of the race used $\frac{21}{25}$ of Rocky's time to finish the race. How much time did the winner use to finish the race?

2. Patrick decided to run every day to keep himself healthy. He ended up running $\frac{3}{5}$ of a kilometer every day. How much did he run in a week?

3. Scarlett usually rides her bike about $1\frac{1}{5}$ hours every day. The distance between the library and school is $\frac{7}{8}$ mile. Yesterday the bike had a problem and Scarlett only rode her bike $\frac{2}{3}$ of the way from school to the library and walked the rest of the way. How far did she ride her bike?

4. It takes Olivia one minute to swim $\frac{1}{60}$ of a kilometer. How far can she swim in 12 minutes?

5. The tallest basketball player in the school's basketball team is 6 feet tall. Jacob's height is $\frac{11}{12}$ of the height of the tallest basketball player. What is Jacob's height?

6. Mila is a professional marathon runner. She spends 38 hours each week training. She spends $\frac{2}{5}$ of her training time running and $\frac{3}{8}$ of her training time in the gym. How many hours does she spend in the gym every week?

Answers

1. $\frac{5}{12} \times \frac{21}{25} = \frac{7}{20}$
   The winner used $\frac{7}{20}$ minute to finish the race.

2. $\frac{3}{5} \times 7 = 4\frac{1}{5}$
   He ran $4\frac{1}{5}$ kilometer in a week.

3. $\frac{7}{8} \times \frac{2}{3} = \frac{7}{12}$
   She rode her bike for $\frac{7}{12}$ miles.

4. $\frac{1}{60} \times 12 = \frac{1}{5}$
   She can swim $\frac{1}{5}$ kilometers in 12 minutes.

5. $6 \times \frac{11}{12} = 5\frac{1}{2}$
   Jacob's height is $5\frac{1}{2}$ feet.

6. $38 \times \frac{3}{8} = 14\frac{1}{4}$
   She spent $14\frac{1}{4}$ hours in the gym every week.