

Unit Rates and Ratios of Fractions

Solve each problem.

- ① John writes $\frac{1}{6}$ of a page in $\frac{1}{12}$ of a minute. How much time does it take him to write a full page?

- ② David fills $\frac{1}{5}$ of a water bottle in $\frac{1}{25}$ of a minute. How much time will it take to fill the full water bottle?

- ③ Jen writes $\frac{1}{7}$ of a page in $\frac{1}{15}$ of a minute. How many minutes does it take her to write a full page?

- ④ Chris walked $\frac{1}{8}$ of a mile in $\frac{1}{16}$ of an hour. Compute the unit rate in the simplified form.

- ⑤ Gabriel drinks $\frac{1}{5}$ of milk in a glass in $\frac{1}{15}$ of a minute. How long will it take to complete the entire glass of milk?

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Answers

- ① John writes $\frac{1}{6}$ of a page in $\frac{1}{12}$ of a minute. How much time does it take him to write a full page?

$\frac{1}{2}$ of a minute

- ② David fills $\frac{1}{5}$ of a water bottle in $\frac{1}{25}$ of a minute. How much time will it take to fill the full water bottle?

$\frac{1}{5}$ of a minute

- ③ Jen writes $\frac{1}{7}$ of a page in $\frac{1}{15}$ of a minute. How many minutes does it take her to write a full page?

$\frac{7}{15}$ of a minute

- ④ Chris walked $\frac{1}{8}$ of a mile in $\frac{1}{16}$ of an hour. Compute the unit rate in the simplified form.

2 miles/hour

- ⑤ Gabriel drinks $\frac{1}{5}$ of milk in a glass in $\frac{1}{15}$ of a minute. How long will it take to complete the entire glass of milk?

$\frac{1}{3}$ of a minute
