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## Getting the Job Done—Work

 Magarete's Work Rate $\frac{240 \text{ apples}}{30 \text{ seconds}}$	 Matilda's Work Rate $\frac{8 \text{ apples}}{2 \text{ seconds}}$
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- 1 Find the unit rate for each given rate.
- 2 Determine who has the faster work rate.
- 3 Order the work rates.
- 4 Calculate the work rate for each word problem.
- 5 Find the fastest work rate.
- 6 Identify and add work rates.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



## Find the unit rate for each given rate.

Match each rate with its unit rate.

$$\frac{216 \text{ feet}}{9 \text{ seconds}} \quad \text{A}$$

$$\frac{60 \text{ feet}}{15 \text{ seconds}} \quad \text{B}$$

$$\frac{198 \text{ feet}}{22 \text{ seconds}} \quad \text{C}$$

$$\frac{255 \text{ feet}}{17 \text{ seconds}} \quad \text{D}$$

$$\frac{714 \text{ feet}}{51 \text{ seconds}} \quad \text{E}$$

$$\frac{216 \text{ feet}}{27 \text{ seconds}} \quad \text{F}$$

$$\text{1} \quad \frac{14 \text{ feet}}{1 \text{ second}}$$

$$\text{2} \quad \frac{9 \text{ feet}}{1 \text{ second}}$$

$$\text{3} \quad \frac{24 \text{ feet}}{1 \text{ second}}$$

$$\text{4} \quad \frac{8 \text{ feet}}{1 \text{ second}}$$

$$\text{5} \quad \frac{4 \text{ feet}}{1 \text{ second}}$$

$$\text{6} \quad \frac{15 \text{ feet}}{1 \text{ second}}$$



## Hints for solving these problems

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of 6

### Find the unit rate for each given rate.

#### Hint #1

A unit rate relates a quantity to **one** unit of another quantity.

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#### Hint #2

To find the unit rate, divide both sides of the fraction by the denominator.

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#### Hint #3

Rate:  $\frac{84 \text{ feet}}{12 \text{ seconds}}$

Unit Rate:  $\frac{7 \text{ feet}}{1 \text{ second}}$

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## Answers and detailed answer explanations for these problems

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of 6

### Find the unit rate for each given rate.

**Answer key:** A—3 // B—5 // C—2 // D—6 // E—1 // F—4

A unit work rate relates a quantity to **one** unit of another quantity.

- The **rate** is  $\frac{216 \text{ feet}}{9 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 9:  $\frac{24 \text{ feet}}{1 \text{ second}}$ .
- The **rate** is  $\frac{60 \text{ feet}}{15 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 15:  $\frac{4 \text{ feet}}{1 \text{ second}}$ .
- The **rate** is  $\frac{198 \text{ feet}}{22 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 22:  $\frac{9 \text{ feet}}{1 \text{ second}}$ .
- The **rate** is  $\frac{255 \text{ feet}}{17 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 17:  $\frac{15 \text{ feet}}{1 \text{ second}}$ .
- The **rate** is  $\frac{714 \text{ feet}}{51 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 51:  $\frac{14 \text{ feet}}{1 \text{ second}}$ .
- The **rate** is  $\frac{216 \text{ feet}}{27 \text{ seconds}}$ . To find the **unit rate**, divide the numerator and denominator by 27:  $\frac{8 \text{ feet}}{1 \text{ second}}$ .