

Question ID 1c92f5b3

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 1c92f5b3

An insect moves at a speed of $\frac{3}{20}$ feet per second. What is this speed, in yards per second? (**3 feet = 1 yard**)

- A. $\frac{1}{20}$
- B. $\frac{9}{20}$
- C. **6**
- D. **20**

Question ID 354dd385

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: 354dd385

A competition consisted of four different events. One participant completed the first event with an average speed of **20.300** miles per hour. What was this average speed, in yards per hour? (**1 mile = 1,760 yards**)

Question ID b0f7f399

Assessment	Test	Domain	Skill	Difficulty
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ID: b0f7f399

A triathlon is a multisport race consisting of three different legs. A triathlon participant completed the cycling leg with an average speed of **19.700** miles per hour. What was the average speed, in yards per hour, of the participant during the cycling leg? (**1 mile = 1,760 yards**)

Question ID 988ab336

Assessment	Test	Domain	Skill	Difficulty
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ID: 988ab336

The population density of Cedar County is **230** people per square mile. The county has a population of **85,100** people. What is the area, in square miles, of Cedar County?

Question ID 10ff87f3

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ID: 10ff87f3

How many yards are equivalent to **77** rods? (**5.5 yards = 1 rod**)

Question ID 74a66620

Assessment	Test	Domain	Skill	Difficulty
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ID: 74a66620

The ratio of the length of line segment XY to the length of line segment ZV is **6** to **1**. If the length of line segment XY is **102** inches, what is the length, in inches, of line segment ZV ?

- A. **17**
- B. **96**
- C. **102**
- D. **612**

Question ID a5bc3f67

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: a5bc3f67

A participant in a bicycle race completes the race with an average speed of **24,816** yards per hour. What is this average speed, in miles per hour? (**1 mile = 1,760 yards**)

Question ID 738856d4

Assessment	Test	Domain	Skill	Difficulty
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ID: 738856d4

How many fluid ounces are equivalent to **76** quarts? (**8 fluid ounces = 1 cup and 4 cups = 1 quart**)

Question ID b85e0fb8

Assessment	Test	Domain	Skill	Difficulty
PSAT/NMSQT & PSAT 10	Math	Problem-Solving and Data Analysis	Ratios, rates, proportional relationships, and units	<div><div></div><div></div><div></div></div>

ID: b85e0fb8

The ratio x to y is equivalent to the ratio 12 to t . When $x = 156$, what is the value of y in terms of t ?

- A. $13t$
- B. $12t$
- C. $144t$
- D. $168t$

Question ID 35fb60c1

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ID: 35fb60c1

The ratio **140** to *m* is equivalent to the ratio **4** to **28**. What is the value of *m*?

Question ID f0ca5e13

Assessment	Test	Domain	Skill	Difficulty
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ID: f0ca5e13

A distance of **61** furlongs is equivalent to how many feet? (**1 furlong = 220 yards** and **1 yard = 3 feet**)

Question ID 7af63c22

Assessment	Test	Domain	Skill	Difficulty
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ID: 7af63c22

An object has a mass of **168** grams and a volume of **24** cubic centimeters. What is the density, in grams per cubic centimeter, of the object?

- A. **7**
- B. **144**
- C. **192**
- D. **4,032**

Question ID c963a231

Assessment	Test	Domain	Skill	Difficulty
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ID: c963a231

A distance of **112** furlongs is equivalent to how many feet? (**1 furlong = 220 yards and 1 yard = 3 feet**)