Question ID cf74060f

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

ID: cf74060f

How many yards are equivalent to 612 inches? $(1 \text{ yard} = 36 \text{ inches})$

A. 0.059

B. 17

C. 576

D. $22{,}032$

Question ID 6ef051d6

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

ID: 6ef051d6

A cherry pitting machine pits 12 pounds of cherries in 3 minutes. At this rate, how many minutes does it take the machine to pit 96 pounds of cherries?

A. 8

B. 15

C. 24

D. 36

Question ID 767d5ce1

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

ID: 767d5ce1

A certain bird species can fly at an average speed of 16 meters per second when in continuous flight. At this rate, how many meters would this bird species fly in 4 seconds?

A. 64

B. 20

C. 16

D. 12

Question ID 8c80a1f7

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

ID: 8c80a1f7

A wind turbine completes 900 revolutions in 50 minutes. At this rate, how many revolutions per minute does this turbine complete?

A. 18

B. 850

C. 950

D. $1{,}400$

Question ID 33ac56b9

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

ID: 33ac56b9

A fish swam a distance of $5{,}104$ yards. How far did the fish swim, in miles? $(1 \text{ mile} = 1{,}760 \text{ yards})$

A. 0.3

B. 2.9

C. $3{,}344$

D. $6{,}864$

Question ID 90ff6271

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

ID: 90ff6271

Tilly earns p dollars for every w hours of work. Which expression represents the amount of money, in dollars, Tilly earns for $39w$ hours of work?

A. $39p$

B. $\frac{p}{39}$

C. $p + 39$

D. $p - 39$

Question ID aa0af439

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

ID: aa0af439

A kangaroo has a mass of 28 kilograms. What is the kangaroo's mass, in grams? $(1\ \text{kilogram} = 1{,}000\ \text{grams})$

A. $28{,}000$

B. $1{,}028$

C. 972

D. 784

Question ID c0f5ceb0

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

ID: c0f5ceb0

What length, in centimeters, is equivalent to a length of 51 meters? $(1\ \text{meter} = 100\ \text{centimeters})$

A. 0.051

B. 0.51

C. $5{,}100$

D. $51{,}000$

Question ID d0e32a44

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

ID: d0e32a44

In a box of pens, the ratio of black pens to red pens is 8 to 1. There are 40 black pens in the box. How many red pens are in the box?

A. 5

B. 8

C. 40

D. 320

Question ID f7ad05cf

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

ID: f7ad05cf

How many feet are equivalent to 34 yards? $(1\ \text{yard} = 3\ \text{feet})$

Question ID 4e15a974

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

ID: 4e15a974

An object travels at a constant speed of 6 centimeters per second. At this speed, what is the time, in seconds, that it would take for the object to travel 24 centimeters?

Question ID 588427e5

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

ID: 588427e5

A special camera is used for underwater ocean research. The camera is at a depth of 39 fathoms. What is the camera's depth in feet? $(1 \text{ fathom} = 6 \text{ feet})$

A. 234

B. 117

C. 45

D. 7

Question ID 459ec83b

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

ID: 459ec83b

The population density of Worthington is 290 people per square mile. Worthington has a population of $92{,}800$ people. What is the area, in square miles, of Worthington?

A. $102{,}400$

B. $93{,}090$

C. 320

D. 32

Question ID 8ba43cc1

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

ID: 8ba43cc1

How many meters are equivalent to $2{,}300$ centimeters? $(100 \text{ centimeters} = 1 \text{ meter})$

A. 0.043

B. 23

C. $2{,}400$

D. $230{,}000$

Question ID 1e261383

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

ID: 1e261383

A product costs 11.00 dollars per pound. What is the cost, in dollars, for 6 pounds of the product?

Question ID 8f5c6dcd

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

ID: 8f5c6dcd

A special camera is used for underwater ocean research. When the camera is at a depth of 58 fathoms, what is the camera's depth in feet? $(1 \text{ fathom} = 6 \text{ feet})$

Question ID 9764f80c

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

ID: 9764f80c

An object travels at a constant speed of 12 centimeters per second. At this speed, what is the time, in seconds, that it would take for the object to travel 108 centimeters?

A. 9

B. 96

C. 120

D. 972

Question ID 9fb9a483

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

ID: 9fb9a483

How many yards are equivalent to $1{,}116$ inches? $(1 \text{ yard} = 36 \text{ inches})$

Question ID 0a4927b1

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

ID: 0a4927b1

A printer produces posters at a constant rate of 42 posters per minute. At what rate, in posters per hour, does the printer produce the posters?

Question ID 2d68e3c3

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

ID: 2d68e3c3

A customer spent $27 to purchase oranges at $3 per pound. How many pounds of oranges did the customer purchase?

Question ID 5bcefcbe

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

ID: 5bcefcbe

How many teaspoons are equivalent to 44 tablespoons? $(3 \text{ teaspoons} = 1 \text{ tablespoon})$

A. 47

B. 88

C. 132

D. 176

Question ID 6d36fc79

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

ID: 6d36fc79

A mechanical device in a workshop produces items at a constant rate of 60 items per hour. At this rate, how many items will the mechanical device produce in 3 hours?