Name:_			



Math worksheet on 'Units - Conversion (1 Ratio) - Word Problem to Problem Setup (Level 1)'. Part of a broader unit on 'Unit Conversion - Intro'

Learn online: app.mobius.academy/math/units/unit conversion intro/

1

Select the correct way to set up this unit conversion problem

A beetle takes 4 seconds to crawl a foot. How long, in seconds, does it take to crawl a yard?

$4\frac{s}{ft} \cdot 3\frac{ft}{yrd}$	$\mathbf{b}_{4} rac{s}{ft} \cdot 60 rac{s}{min}$
$4\frac{s}{ft} \cdot \frac{1}{3} \frac{yrd}{ft}$	

2

Select the correct way to set up this unit conversion problem

An ant takes 5 seconds to crawl a yard. How long, in seconds, does it take to crawl a foot?

$\mathbf{a}$ $5\frac{s}{yrd} \cdot \frac{1}{3} \frac{yrd}{ft}$	$^{f b}_{5}rac{s}{yrd}\cdotrac{1}{60}rac{min}{s}$
$\mathbf{c}$ 5 $\frac{s}{yrd}$ · 3 $\frac{ft}{yrd}$	

3

An ant takes 2 seconds to crawl a yard. How long, in seconds, does it take to crawl a foot?

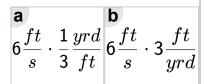
Select the correct way to set up this unit conversion problem

a  $2\frac{s}{yrd} \cdot \frac{1}{3} \frac{yrd}{ft} 2\frac{s}{yrd} \cdot 3\frac{ft}{yrd}$ 

4

Select the correct way to set up this unit conversion problem

A beetle crawls 6 feet each second. How many yards does it crawl each second?



5

Select the correct way to set up this unit conversion problem

An ant takes 3 seconds to crawl a yard. How long, in seconds, does it take to crawl a foot?

$3\frac{s}{yrd} \cdot \frac{1}{3} \frac{yrd}{ft}$	$\frac{\mathbf{b}}{3}\frac{s}{yrd}\cdot 60\frac{s}{min}$
$\mathbf{c}_{3\frac{s}{yrd} \cdot 3\frac{ft}{yrd}}$	$^{\circ}$ 3 $\frac{s}{yrd} \cdot \frac{1}{60} \frac{min}{s}$

6

Select the correct way to set up this unit conversion problem

An ant crawls 3 yards each second. What is its speed in feet per second?

$3\frac{yrd}{s} \cdot 3\frac{ft}{yrd}$	$3\frac{yrd}{s} \cdot 60\frac{s}{min}$
$3\frac{yrd}{s} \cdot \frac{1}{3}\frac{yrd}{ft}$	

7

A beetle takes 3 seconds to crawl a foot. How long, in seconds, does it take to crawl a yard?

Select the correct way to set up this unit conversion problem

 $\begin{vmatrix} \mathbf{a} \\ 3\frac{s}{ft} \cdot \frac{1}{3}\frac{yrd}{ft} \end{vmatrix} 3\frac{s}{ft} \cdot 3\frac{ft}{yrd}$