



Math worksheet on 'Units - Conversion (1 Ratio) - Word Problem to Problem Setup (Level 2)'. Part of a broader unit on 'Unit Conversion - Intro'

Learn online: [app.mobius.academy/math/units/unit\\_conversion\\_intro/](http://app.mobius.academy/math/units/unit_conversion_intro/)

1

Select the correct way to set up this unit conversion problem

An ant crawls  $\frac{6}{7}$  yards each second. What is its speed in feet per second?

- |   |   |
|---|---|
| <b>a</b> $\frac{6 \text{ yrd}}{7 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ | <b>b</b> $\frac{6 \text{ yrd}}{7 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}}$ |
| <b>c</b> $\frac{6 \text{ yrd}}{7 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$     |   |
|   |   |

2

Select the correct way to set up this unit conversion problem

A beetle takes  $\frac{5}{3}$  seconds to crawl a foot. How long, in seconds, does it take to crawl a yard?

- |  |  |
|--|--|
| <b>a</b> $\frac{5 \text{ s}}{3 \text{ ft}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ | <b>b</b> $\frac{5 \text{ s}}{3 \text{ ft}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$ |
|  |  |

3

Select the correct way to set up this unit conversion problem

A beetle crawls  $\frac{2}{5}$  feet each second. How many yards does it crawl each second?

- |  |  |
|--|--|
| <b>a</b> $\frac{2 \text{ ft}}{5 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ | <b>b</b> $\frac{2 \text{ ft}}{5 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$ |
| <b>c</b> $\frac{2 \text{ ft}}{5 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}}$     |  |
|  |  |

4

Select the correct way to set up this unit conversion problem

A beetle crawls  $\frac{7}{4}$  feet each second. How many yards does it crawl each second?

- |  |  |
|--|--|
| <b>a</b> $\frac{7 \text{ ft}}{4 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}}$     | <b>b</b> $\frac{7 \text{ ft}}{4 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$ |
| <b>c</b> $\frac{7 \text{ ft}}{4 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ |  |
|  |  |

5

Select the correct way to set up this unit conversion problem

An ant crawls  $\frac{5}{8}$  yards each second. What is its speed in feet per second?

- |   |   |
|---|---|
| <b>a</b> $\frac{5 \text{ yrd}}{8 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$ | <b>b</b> $\frac{5 \text{ yrd}}{8 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ |
| <b>c</b> $\frac{5 \text{ yrd}}{8 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}}$ |   |
|   |   |

6

Select the correct way to set up this unit conversion problem

An ant takes  $\frac{2}{4}$  seconds to crawl a yard. How long, in seconds, does it take to crawl a foot?

- |   |   |
|---|---|
| <b>a</b> $\frac{2 \text{ s}}{4 \text{ yrd}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$     | <b>b</b> $\frac{2 \text{ s}}{4 \text{ yrd}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ |
| <b>c</b> $\frac{2 \text{ s}}{4 \text{ yrd}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ |   |
|   |   |

7

Select the correct way to set up this unit conversion problem

A beetle crawls  $\frac{4}{4}$  feet each second. How many yards does it crawl each second?

- |  |  |
|--|--|
| <b>a</b> $\frac{4 \text{ ft}}{4 \text{ s}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ | <b>b</b> $\frac{4 \text{ ft}}{4 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}}$     |
| <b>c</b> $\frac{4 \text{ ft}}{4 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}}$     | <b>d</b> $\frac{4 \text{ ft}}{4 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}}$ |
|  |  |