



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

Learn online: app.mobius.academy/math/units/unit_conversion_intro/

1

Convert this rate from yards per second to feet per second.
There are 1/3 yrd in every ft

An ant crawls 6 yards each second. What is its speed in feet per second?

- | | | | |
|----------|-------------------------------------|----------|-------------------------------------|
| a | $\frac{3 \text{ ft}}{6 \text{ s}}$ | b | $\frac{9 \text{ ft}}{3 \text{ s}}$ |
| c | $18 \frac{\text{ft}}{\text{s}}$ | d | $\frac{6 \text{ ft}}{3 \text{ s}}$ |
| e | $\frac{4 \text{ ft}}{18 \text{ s}}$ | f | $\frac{1 \text{ ft}}{20 \text{ s}}$ |

2

Convert this rate from seconds per yard to seconds per foot.
There are 3 ft in every yrd

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

- | | | | |
|----------|------------------------------------|----------|-------------------------------------|
| a | $\frac{3 \text{ s}}{3 \text{ ft}}$ | b | $15 \frac{\text{s}}{\text{ft}}$ |
| c | $\frac{1 \text{ s}}{9 \text{ ft}}$ | d | $\frac{10 \text{ s}}{3 \text{ ft}}$ |
| e | $\frac{9 \text{ s}}{3 \text{ ft}}$ | | |

3

Convert this rate from seconds per foot to seconds per yard.
There are 3 ft in every yrd

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

- | | | | |
|----------|--------------------------------------|----------|-------------------------------------|
| a | $\frac{9 \text{ s}}{4 \text{ yrd}}$ | b | $\frac{9 \text{ s}}{6 \text{ yrd}}$ |
| c | $\frac{1 \text{ s}}{13 \text{ yrd}}$ | d | $\frac{9 \text{ s}}{7 \text{ yrd}}$ |
| e | $\frac{5 \text{ s}}{3 \text{ yrd}}$ | f | $9 \frac{\text{s}}{\text{yrd}}$ |

4

Convert this rate from feet per second to yards per second.
There are 1/3 yrd in every ft

A beetle crawls 2 feet each second. How many yards does it crawl each second?

- | | | | |
|----------|-------------------------------------|----------|--------------------------------------|
| a | $\frac{1 \text{ yrd}}{6 \text{ s}}$ | b | $\frac{2 \text{ yrd}}{3 \text{ s}}$ |
| c | $\frac{6 \text{ yrd}}{7 \text{ s}}$ | d | $6 \frac{\text{yrd}}{\text{s}}$ |
| e | $\frac{3 \text{ yrd}}{2 \text{ s}}$ | f | $\frac{10 \text{ yrd}}{2 \text{ s}}$ |

5

Convert this rate from yards per second to feet per second.
There are 3 ft in every yrd

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

- | | | | |
|----------|-------------------------------------|----------|------------------------------------|
| a | $\frac{3 \text{ ft}}{3 \text{ s}}$ | b | $\frac{8 \text{ ft}}{3 \text{ s}}$ |
| c | $9 \frac{\text{ft}}{\text{s}}$ | d | $\frac{1 \text{ ft}}{9 \text{ s}}$ |
| e | $\frac{10 \text{ ft}}{3 \text{ s}}$ | | |

6

Convert this rate from feet per second to yards per second.
There are 1/3 yrd in every ft

A beetle crawls 3 feet each second. How many yards does it crawl each second?

- | | | | |
|----------|--------------------------------------|----------|-------------------------------------|
| a | $9 \frac{\text{yrd}}{\text{s}}$ | b | $\frac{3 \text{ yrd}}{6 \text{ s}}$ |
| c | $\frac{10 \text{ yrd}}{3 \text{ s}}$ | d | $\frac{3 \text{ yrd}}{3 \text{ s}}$ |
| e | $\frac{9 \text{ yrd}}{3 \text{ s}}$ | f | $\frac{1 \text{ yrd}}{9 \text{ s}}$ |

7

Convert this rate from feet per second to yards per second.
There are 3 ft in every yrd

A beetle crawls 7 feet each second. How many yards does it crawl each second?

- | | | | |
|----------|--------------------------------------|----------|-------------------------------------|
| a | $\frac{1 \text{ yrd}}{23 \text{ s}}$ | b | $\frac{7 \text{ yrd}}{3 \text{ s}}$ |
| c | $\frac{1 \text{ yrd}}{21 \text{ s}}$ | d | $\frac{3 \text{ yrd}}{7 \text{ s}}$ |
| e | $26 \frac{\text{yrd}}{\text{s}}$ | | |