



Math worksheet on 'Units - Conversion (2 Ratios) - 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/](http://app.mobius.academy/math/units/unit_conversion_intro/)

1

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

A caterpillar takes 6 minutes to move a yard. How long, in seconds, does it take to move a foot?

- |          |                                      |          |                                       |
|----------|--------------------------------------|----------|---------------------------------------|
| <b>a</b> | $\frac{365 \text{ s}}{3 \text{ ft}}$ | <b>b</b> | $\frac{24 \text{ s}}{60 \text{ ft}}$  |
| <b>c</b> | $\frac{360 \text{ s}}{3 \text{ ft}}$ | <b>d</b> | $\frac{360 \text{ s}}{10 \text{ ft}}$ |
| <b>e</b> | $\frac{60 \text{ s}}{18 \text{ ft}}$ | <b>f</b> | $\frac{3 \text{ s}}{360 \text{ ft}}$  |

2

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

A bird flies at 4 feet per second. What is its speed in yards per minute?

- |          |   |          |   |
|----------|---|----------|---|
| <b>a</b> | $\frac{12 \text{ yrd}}{60 \text{ min}}$ | <b>b</b> | $\frac{60 \text{ yrd}}{14 \text{ min}}$ |
| <b>c</b> | $\frac{3 \text{ yrd}}{240 \text{ min}}$ | <b>d</b> | $\frac{240 \text{ yrd}}{3 \text{ min}}$ |
| <b>e</b> | $\frac{244 \text{ yrd}}{3 \text{ min}}$ |          |   |

3

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

A bird flies at 8 feet per second. What is its speed in yards per minute?

- |          |  |          |   |
|----------|--|----------|---|
| <b>a</b> | $\frac{27 \text{ yrd}}{60 \text{ min}}$  | <b>b</b> | $\frac{24 \text{ yrd}}{60 \text{ min}}$ |
| <b>c</b> | $\frac{3 \text{ yrd}}{480 \text{ min}}$  | <b>d</b> | $\frac{480 \text{ yrd}}{3 \text{ min}}$ |
| <b>e</b> | $\frac{480 \text{ yrd}}{10 \text{ min}}$ | <b>f</b> | $\frac{485 \text{ yrd}}{3 \text{ min}}$ |

4

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

An eagle dives at 5 yards per second. What is its dive speed in feet per minute?

- |          |  |          |  |
|----------|--|----------|--|
| <b>a</b> | $\frac{8 \text{ ft}}{900 \text{ min}}$ | <b>b</b> | $\frac{900 \text{ ft}}{4 \text{ min}}$ |
| <b>c</b> | $\frac{180 \text{ ft}}{9 \text{ min}}$ | <b>d</b> | $\frac{5 \text{ ft}}{180 \text{ min}}$ |
| <b>e</b> | $900 \frac{\text{ft}}{\text{min}}$     | <b>f</b> | $\frac{1 \text{ ft}}{900 \text{ min}}$ |

5

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

A caterpillar takes 7 minutes to move a yard. How long, in seconds, does it take to move a foot?

- |          |                                      |          |                                      |
|----------|--------------------------------------|----------|--------------------------------------|
| <b>a</b> | $\frac{21 \text{ s}}{60 \text{ ft}}$ | <b>b</b> | $\frac{60 \text{ s}}{28 \text{ ft}}$ |
| <b>c</b> | $\frac{60 \text{ s}}{21 \text{ ft}}$ | <b>d</b> | $\frac{420 \text{ s}}{3 \text{ ft}}$ |
| <b>e</b> | $\frac{3 \text{ s}}{420 \text{ ft}}$ | <b>f</b> | $\frac{3 \text{ s}}{426 \text{ ft}}$ |

6

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

A worm takes 5 minutes to move a foot. How long, in seconds, does it take to move a yard?

- |          |                                       |          |  |
|----------|---------------------------------------|----------|--|
| <b>a</b> | $\frac{187 \text{ s}}{5 \text{ yrd}}$ | <b>b</b> | $\frac{1 \text{ s}}{900 \text{ yrd}}$  |
| <b>c</b> | $900 \frac{\text{s}}{\text{yrd}}$     | <b>d</b> | $\frac{180 \text{ s}}{12 \text{ yrd}}$ |
| <b>e</b> | $\frac{1 \text{ s}}{906 \text{ yrd}}$ | <b>f</b> | $\frac{7 \text{ s}}{900 \text{ yrd}}$  |

7

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

An eagle dives at 6 yards per second. What is its dive speed in feet per minute?

- |          |   |          |   |
|----------|---|----------|---|
| <b>a</b> | $1080 \frac{\text{ft}}{\text{min}}$     | <b>b</b> | $\frac{6 \text{ ft}}{180 \text{ min}}$  |
| <b>c</b> | $\frac{1 \text{ ft}}{1080 \text{ min}}$ | <b>d</b> | $\frac{1080 \text{ ft}}{8 \text{ min}}$ |
| <b>e</b> | $\frac{6 \text{ ft}}{183 \text{ min}}$  | <b>f</b> | $\frac{180 \text{ ft}}{6 \text{ min}}$  |