



Math worksheet on 'Units - Conversion (2 Ratios) - Word Problem to Answer (Level 2)'. 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 minute.
There are 1/3 yrd in every ft

An eagle dives at 4/7 yards per second. What is its dive speed in feet per minute?

- | | |
|---|--|
| a $\frac{7 \text{ ft}}{726 \text{ min}}$ | b $\frac{4 \text{ ft}}{1262 \text{ min}}$ |
| c $\frac{7 \text{ ft}}{720 \text{ min}}$ | d $\frac{720 \text{ ft}}{7 \text{ min}}$ |
| e $\frac{7 \text{ ft}}{727 \text{ min}}$ | f $\frac{726 \text{ ft}}{7 \text{ min}}$ |

2

Convert this rate from minutes per yard to seconds per foot.
There are 1/3 yrd in every ft

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

- | | |
|--|--|
| a $\frac{15 \text{ s}}{300 \text{ ft}}$ | b $\frac{300 \text{ s}}{21 \text{ ft}}$ |
| c $\frac{307 \text{ s}}{15 \text{ ft}}$ | d $\frac{302 \text{ s}}{15 \text{ ft}}$ |
| e $\frac{15 \text{ s}}{303 \text{ ft}}$ | f $\frac{300 \text{ s}}{15 \text{ ft}}$ |

3

Convert this rate from minutes per yard to seconds per foot.
There are 1/3 yrd in every ft

A caterpillar takes 2/5 minutes to move a yard. How long, in seconds, does it take to move a foot?

- | | |
|--|--|
| a $\frac{300 \text{ s}}{6 \text{ ft}}$ | b $\frac{22 \text{ s}}{120 \text{ ft}}$ |
| c $\frac{120 \text{ s}}{15 \text{ ft}}$ | d $\frac{15 \text{ s}}{120 \text{ ft}}$ |
| e $\frac{300 \text{ s}}{13 \text{ ft}}$ | |

4

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

A caterpillar takes 8/3 minutes to move a yard. How long, in seconds, does it take to move a foot?

- | | |
|--|--|
| a $\frac{9 \text{ s}}{480 \text{ ft}}$ | b $\frac{24 \text{ s}}{184 \text{ ft}}$ |
| c $\frac{480 \text{ s}}{15 \text{ ft}}$ | d $\frac{24 \text{ s}}{180 \text{ ft}}$ |
| e $\frac{480 \text{ s}}{9 \text{ ft}}$ | |

5

Convert this rate from minutes per foot to seconds per yard.
There are 1/3 yrd in every ft

A worm takes 6/4 minutes to move a foot. How long, in seconds, does it take to move a yard?

- | | |
|---|---|
| a $\frac{1084 \text{ s}}{4 \text{ yrd}}$ | b $\frac{1080 \text{ s}}{4 \text{ yrd}}$ |
| c $\frac{6 \text{ s}}{720 \text{ yrd}}$ | d $\frac{720 \text{ s}}{13 \text{ yrd}}$ |
| e $\frac{1080 \text{ s}}{9 \text{ yrd}}$ | f $\frac{4 \text{ s}}{1080 \text{ yrd}}$ |

6

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

An eagle dives at 5/3 yards per second. What is its dive speed in feet per minute?

- | | |
|---|---|
| a $\frac{540 \text{ ft}}{5 \text{ min}}$ | b $\frac{900 \text{ ft}}{5 \text{ min}}$ |
| c $\frac{5 \text{ ft}}{544 \text{ min}}$ | d $\frac{542 \text{ ft}}{5 \text{ min}}$ |
| e $\frac{900 \text{ ft}}{3 \text{ min}}$ | f $\frac{3 \text{ ft}}{900 \text{ min}}$ |

7

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

A bird flies at 6/5 feet per second. What is its speed in yards per minute?

- | | |
|---|---|
| a $\frac{18 \text{ yrd}}{300 \text{ min}}$ | b $\frac{364 \text{ yrd}}{15 \text{ min}}$ |
| c $\frac{360 \text{ yrd}}{15 \text{ min}}$ | d $\frac{300 \text{ yrd}}{18 \text{ min}}$ |
| e $\frac{15 \text{ yrd}}{360 \text{ min}}$ | |