



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?

- | | | | |
|----------|---|----------|---|
| a | $4 \frac{s}{ft} \cdot 3 \frac{ft}{yrd}$ | b | $4 \frac{s}{ft} \cdot 60 \frac{s}{min}$ |
| c | $4 \frac{s}{ft} \cdot \frac{1 yrd}{3 ft}$ | | |
| | | | |

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?

- | | | | |
|----------|--|----------|--|
| a | $5 \frac{s}{yrd} \cdot \frac{1 yrd}{3 ft}$ | b | $5 \frac{s}{yrd} \cdot \frac{1 min}{60 s}$ |
| c | $5 \frac{s}{yrd} \cdot 3 \frac{ft}{yrd}$ | | |
| | | | |

3

Select the correct way to set up this unit conversion problem

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

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

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?

- | | | | |
|----------|---|----------|---|
| a | $6 \frac{ft}{s} \cdot \frac{1 yrd}{3 ft}$ | b | $6 \frac{ft}{s} \cdot 3 \frac{ft}{yrd}$ |
| | | | |

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?

- | | | | |
|----------|--|----------|--|
| a | $3 \frac{s}{yrd} \cdot \frac{1 yrd}{3 ft}$ | b | $3 \frac{s}{yrd} \cdot 60 \frac{s}{min}$ |
| c | $3 \frac{s}{yrd} \cdot 3 \frac{ft}{yrd}$ | d | $3 \frac{s}{yrd} \cdot \frac{1 min}{60 s}$ |
| | | | |

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?

- | | | | |
|----------|--|----------|--|
| a | $3 \frac{yrd}{s} \cdot 3 \frac{ft}{yrd}$ | b | $3 \frac{yrd}{s} \cdot 60 \frac{s}{min}$ |
| c | $3 \frac{yrd}{s} \cdot \frac{1 yrd}{3 ft}$ | | |
| | | | |

7

Select the correct way to set up this unit conversion problem

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

- | | | | |
|----------|---|----------|---|
| a | $3 \frac{s}{ft} \cdot \frac{1 yrd}{3 ft}$ | b | $3 \frac{s}{ft} \cdot 3 \frac{ft}{yrd}$ |
| | | | |