



Math worksheet on 'Units - Conversion (2 Ratios) - 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/

1 Select the correct way to set up this unit conversion problem

$$\frac{7 \text{ yrd}}{8 \text{ s}} \text{ is ? } \frac{\text{ft}}{\text{min}}$$

- | | | | |
|---|---|---|---|
| a | $\frac{7 \text{ yrd}}{8 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}} \cdot 60 \frac{\text{s}}{\text{min}}$ | b | $\frac{7 \text{ yrd}}{8 \text{ s}} \cdot 60 \frac{\text{s}}{\text{min}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ |
| c | $\frac{7 \text{ yrd}}{8 \text{ s}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ | d | $\frac{7 \text{ yrd}}{8 \text{ s}} \cdot 3 \frac{\text{ft}}{\text{yrd}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ |

2 Select the correct way to set up this unit conversion problem

$$\frac{5 \text{ min}}{3 \text{ ft}} \text{ is ? } \frac{\text{s}}{\text{yrd}}$$

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

3 Select the correct way to set up this unit conversion problem

$$\frac{6 \text{ min}}{4 \text{ yrd}} \text{ is ? } \frac{\text{s}}{\text{ft}}$$

- | | | | |
|---|---|---|---|
| a | $\frac{6 \text{ min}}{4 \text{ yrd}} \cdot 3 \frac{\text{ft}}{\text{yrd}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ | b | $\frac{6 \text{ min}}{4 \text{ yrd}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ |
| c | $\frac{6 \text{ min}}{4 \text{ yrd}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}} \cdot 60 \frac{\text{s}}{\text{min}}$ | | |

4 Select the correct way to set up this unit conversion problem

$$\frac{2 \text{ ft}}{3 \text{ s}} \text{ is ? } \frac{\text{yrd}}{\text{min}}$$

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

5 Select the correct way to set up this unit conversion problem

$$\frac{3 \text{ ft}}{4 \text{ s}} \text{ is ? } \frac{\text{yrd}}{\text{min}}$$

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

6 Select the correct way to set up this unit conversion problem

$$\frac{3 \text{ ft}}{6 \text{ s}} \text{ is ? } \frac{\text{yrd}}{\text{min}}$$

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

7 Select the correct way to set up this unit conversion problem

$$\frac{7 \text{ min}}{2 \text{ ft}} \text{ is ? } \frac{\text{s}}{\text{yrd}}$$

- | | | | |
|---|--|---|--|
| a | $\frac{7 \text{ min}}{2 \text{ ft}} \cdot 3 \frac{\text{ft}}{\text{yrd}} \cdot 60 \frac{\text{s}}{\text{min}}$ | b | $\frac{7 \text{ min}}{2 \text{ ft}} \cdot \frac{1 \text{ yrd}}{3 \text{ ft}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ |
| c | $\frac{7 \text{ min}}{2 \text{ ft}} \cdot \frac{1 \text{ min}}{60 \text{ s}} \cdot \frac{1 \text{ min}}{60 \text{ s}}$ | | |