



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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