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

A bird flies at 2/5 feet per second. What is its speed in yards per minute?

**a** $\frac{2}{5}\frac{ft}{s} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$

**b** $\frac{2}{5}\frac{ft}{s} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot \frac{1}{60}\frac{min}{s}$

**c** $\frac{2}{5}\frac{ft}{s} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**2**

Select the correct way to set up this unit conversion problem

A caterpillar takes 3/7 minutes to move a yard. How long, in seconds, does it take to move a foot?

**a** $\frac{3}{7}\frac{min}{yrd} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$

**b** $\frac{3}{7}\frac{min}{yrd} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$

**c** $\frac{3}{7}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**3**

Select the correct way to set up this unit conversion problem

A worm takes 5/8 minutes to move a foot. How long, in seconds, does it take to move a yard?

**a** $\frac{5}{8}\frac{min}{ft} \cdot 60\frac{s}{min} \cdot \frac{1}{60}\frac{min}{s}$

**b** $\frac{5}{8}\frac{min}{ft} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot \frac{1}{60}\frac{min}{s}$

**c** $\frac{5}{8}\frac{min}{ft} \cdot 3\frac{ft}{yrd} \cdot 60\frac{s}{min}$

**4**

Select the correct way to set up this unit conversion problem

A caterpillar takes 3/6 minutes to move a yard. How long, in seconds, does it take to move a foot?

**a** $\frac{3}{6}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**b** $\frac{3}{6}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot \frac{1}{60}\frac{min}{s}$

**c** $\frac{3}{6}\frac{min}{yrd} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$

**5**

Select the correct way to set up this unit conversion problem

A caterpillar takes 2/8 minutes to move a yard. How long, in seconds, does it take to move a foot?

**a** $\frac{2}{8}\frac{min}{yrd} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$

**b** $\frac{2}{8}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**c** $\frac{2}{8}\frac{min}{yrd} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$

**6**

Select the correct way to set up this unit conversion problem

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

**a** $\frac{2}{2}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot \frac{1}{60}\frac{min}{s}$

**b** $\frac{2}{2}\frac{min}{yrd} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**c** $\frac{2}{2}\frac{min}{yrd} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$

**d** $\frac{2}{2}\frac{min}{yrd} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$

**7**

Select the correct way to set up this unit conversion problem

A bird flies at 6/2 feet per second. What is its speed in yards per minute?

**a** $\frac{6}{2}\frac{ft}{s} \cdot \frac{1}{3}\frac{yrd}{ft} \cdot 60\frac{s}{min}$

**b** $\frac{6}{2}\frac{ft}{s} \cdot 60\frac{s}{min} \cdot \frac{1}{60}\frac{min}{s}$

**c** $\frac{6}{2}\frac{ft}{s} \cdot 3\frac{ft}{yrd} \cdot \frac{1}{60}\frac{min}{s}$