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

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

Select the correct way to set up this unit conversion problem

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

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

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

d $6\frac{ft}{s} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$

2

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

Select the correct way to set up this unit conversion problem

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

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

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

3

A bird flies at 8 feet per second. What is its speed in yards per minute?

Select the correct way to set up this unit conversion problem

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

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

c $8\frac{ft}{s} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$

4

An eagle dives at 6 yards per second. What is its dive speed in feet per minute?

Select the correct way to set up this unit conversion problem

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

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

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

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

5

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

Select the correct way to set up this unit conversion problem

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

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

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

6

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

Select the correct way to set up this unit conversion problem

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

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

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

7

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

Select the correct way to set up this unit conversion problem

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

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

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

d $3\frac{min}{ft} \cdot \frac{1}{60}\frac{min}{s} \cdot \frac{1}{60}\frac{min}{s}$