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Math worksheet on *'Units - Conversion (1 Ratio) - Problem to Answer (Level 1)'*. Part of a broader unit on *'Unit Conversion - Intro'*

Learn online: app.mobius.academy/math/units/unit_conversion_intro/

1 Convert this rate from feet per second to yards per second.
There are 1/3 yrd in every ft

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

a	b	c	d	e	f
$\frac{1}{24}\frac{yrd}{s}$	$\frac{5}{8}\frac{yrd}{s}$	$\frac{8}{3}\frac{yrd}{s}$	$\frac{3}{8}\frac{yrd}{s}$	$24\frac{yrd}{s}$	$\frac{3}{15}\frac{yrd}{s}$

2 Convert this rate from yards per second to feet per second.
There are 3 ft in every yrd

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

a	b	c	d	e	f
$\frac{9}{3}\frac{ft}{s}$	$\frac{3}{8}\frac{ft}{s}$	$15\frac{ft}{s}$	$\frac{1}{18}\frac{ft}{s}$	$\frac{8}{3}\frac{ft}{s}$	$\frac{3}{5}\frac{ft}{s}$

3 Convert this rate from yards per second to feet per second.
There are 1/3 yrd in every ft

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

a	b	c	d	e	f
$\frac{1}{14}\frac{ft}{s}$	$\frac{4}{3}\frac{ft}{s}$	$\frac{1}{12}\frac{ft}{s}$	$\frac{3}{4}\frac{ft}{s}$	$12\frac{ft}{s}$	$\frac{1}{16}\frac{ft}{s}$

4 Convert this rate from seconds per foot to seconds per yard.
There are 3 ft in every yrd

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

a	b	c	d	e	f
$\frac{15}{4}\frac{s}{yrd}$	$\frac{1}{15}\frac{s}{yrd}$	$\frac{15}{5}\frac{s}{yrd}$	$\frac{1}{19}\frac{s}{yrd}$	$\frac{5}{6}\frac{s}{yrd}$	$15\frac{s}{yrd}$

5 Convert this rate from seconds per foot to seconds per yard.
There are 1/3 yrd in every ft

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

a	b	c	d	e	f
$\frac{3}{2}\frac{s}{yrd}$	$\frac{1}{6}\frac{s}{yrd}$	$\frac{2}{3}\frac{s}{yrd}$	$\frac{6}{2}\frac{s}{yrd}$	$\frac{2}{9}\frac{s}{yrd}$	$6\frac{s}{yrd}$

6 Convert this rate from feet per second to yards per second.
There are 1/3 yrd in every ft

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

a	b	c	d	e	f
$12\frac{yrd}{s}$	$\frac{4}{3}\frac{yrd}{s}$	$\frac{3}{4}\frac{yrd}{s}$	$\frac{1}{12}\frac{yrd}{s}$	$\frac{12}{8}\frac{yrd}{s}$	$\frac{3}{8}\frac{yrd}{s}$

7 Convert this rate from seconds per yard to seconds per foot.
There are 1/3 yrd in every ft

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

a	b	c	d	e	f
$\frac{3}{9}\frac{s}{ft}$	$\frac{21}{3}\frac{s}{ft}$	$\frac{1}{21}\frac{s}{ft}$	$21\frac{s}{ft}$	$\frac{3}{7}\frac{s}{ft}$	$\frac{7}{3}\frac{s}{ft}$