Proportions

Practice 5C: Chapter 8, pages 48-49

Solve for the variable in each equation below. Write your answer in simplest form.

$\frac{9}{10} = \frac{4}{a}$ $a =$ _____

$\frac{s}{20} = \frac{2}{7}$ $s =$ _____

$\frac{2}{5} = \frac{v}{11}$ $v =$ _____

$\frac{14}{z} = \frac{9}{4}$ $z =$ _____

$\frac{7}{11} = \frac{8}{r}$ $r =$ _____

$\frac{13}{4} = \frac{m}{2}$ $m =$ _____

$\frac{7}{x} = \frac{2}{3}$ $x =$ _____

$\frac{2}{9} = \frac{w}{3}$ $w =$ _____

$\frac{c}{4} = \frac{5}{8}$ $c =$ _____

$\frac{12}{j} = \frac{16}{7}$ $j =$ _____

$\frac{2}{u} = \frac{9}{4}$ $u =$ _____

$\frac{15}{7} = \frac{20}{n}$ $n =$ _____

Proportions Key

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$\frac{9}{10}=\frac{4}{a}$ $a=\frac{40}{9}=4\frac{4}{9}$

$\frac{2}{5}=\frac{v}{11}$ $v=\frac{22}{5}=4\frac{2}{5}$

$\frac{7}{11}=\frac{8}{r}$ $r=\frac{88}{7}=12\frac{4}{7}$

$\frac{7}{x}=\frac{2}{3}$ $x=\frac{21}{2}=10\frac{1}{2}$

$\frac{c}{4}=\frac{5}{8}$ $c=\frac{5}{2}=2\frac{1}{2}$

$\frac{2}{u}=\frac{9}{4}$ $u=\frac{8}{9}$

$\frac{s}{20}=\frac{2}{7}$ $s=\frac{40}{7}=5\frac{5}{7}$

$\frac{14}{z}=\frac{9}{4}$ $z=\frac{56}{9}=6\frac{2}{9}$

$\frac{13}{4}=\frac{m}{2}$ $m=\frac{13}{2}=6\frac{1}{2}$

$\frac{2}{9}=\frac{w}{3}$ $w=\frac{2}{3}$

$\frac{12}{j}=\frac{16}{7}$ $j=\frac{21}{4}=5\frac{1}{4}$

$\frac{15}{7}=\frac{20}{n}$ $n=\frac{28}{3}=9\frac{1}{3}$