5-8 Solving Equations by Multiplying Fractions

Solve and Check $\dfrac{5}{4} \cdot \dfrac{4}{5} = 1$

EX   ~~5a = 1/7~~ $\boxed{5a = \frac{1}{7}}$

$$\dfrac{1}{5} \cdot \dfrac{5a}{1} = \dfrac{1}{7} \cdot \dfrac{1}{5}$$

$$a = \dfrac{1}{35}$$

$5\left(\dfrac{1}{35}\right) = \dfrac{1}{7}$

$\dfrac{5}{35} = \dfrac{1}{7}$

$\dfrac{1}{7} = \dfrac{1}{7}$ ✓

Solve and Check

EX   4/5m = 9/10

$$\dfrac{5}{4} \cdot \dfrac{4}{5}m = \dfrac{9}{10} \cdot \dfrac{5}{4}$$

$$m = \dfrac{9}{8} = 1\dfrac{1}{8}$$

$\dfrac{4}{5}\left(\dfrac{9}{8}\right) = \dfrac{9}{10}$

$\dfrac{9}{10} = \dfrac{9}{10}$ ✓

EX   -14/25k = 8/15

$$\dfrac{-14}{25}k = \dfrac{8}{15}$$

EX   1 5/8(n) = 26

EX