

Name KEI

Solving Equations with Fractions and Decimals

$$1. \quad \frac{2}{7}l = 4 \frac{4}{7}$$

$$l = 14$$

$$l = 4 \frac{4}{7} \div \frac{2}{7}$$

$$\frac{4}{1} \times \frac{7}{2} = \frac{28}{2} = 14$$

$$2. \quad \frac{2}{3}c = 8 \div \frac{2}{3}$$

$$\div \frac{2}{3}$$

$$c = \frac{8}{1} \div \frac{2}{3}$$

K C F

$$c = \frac{8}{1} \times \frac{3}{2} = \frac{24}{2}$$

$$c = 12$$

$$5. \quad 3 \times \frac{m}{13} = 0.5 \times 13$$

$$m = .5 \times 13$$

$$m = 6.5$$

$$7. \quad 15 = 2 \frac{2}{5}x \div \frac{2}{5} = 2 \frac{2}{5}$$

$$15 \div \frac{2}{5} = x$$

K C F

$$\frac{15}{1} \times \frac{5}{2} = \frac{75}{2}$$

$$2. \quad \frac{1}{3}x = 4 \frac{1}{3} \div \frac{1}{3}$$

$$x = \frac{13}{3} \div \frac{1}{3}$$

K C F

$$x = \frac{13}{3} \times \frac{3}{1} = \frac{13}{1}$$

$$x = 13$$

$$4. \quad \frac{3}{4}g = 9 \div \frac{3}{4}$$

$$\div \frac{3}{4}$$

$$g = \frac{9}{1} \div \frac{3}{4}$$

K C F

$$g = \frac{9}{1} \times \frac{4}{3} = \frac{36}{3}$$

$$g = 12$$

$$8. \quad \frac{1}{8}r = \frac{1}{4} \div \frac{1}{8}$$

$$\div \frac{1}{8}$$

$$r = \frac{1}{4} \div \frac{1}{8}$$

K C F

$$r = \frac{1}{4} \times \frac{8}{1} = \frac{8}{4}$$

$$r = 2$$

$$8. \quad \frac{0.7y}{6.7} = \frac{14.07}{6.7}$$

$$y = 2.1$$

$$9 \quad 71x \frac{p}{71} = +0.5 \times 71$$

$$P = 3.55$$

$$11 \quad \frac{71}{2}x = \frac{51}{4}$$

$$\frac{15}{2}x = \frac{21}{4}$$

$$\begin{aligned} \div \frac{15}{2} & \quad \div \frac{15}{2} \\ x &= \frac{21}{4} \div \frac{15}{2} \\ &= \frac{21}{4} \times \frac{2}{15} \\ &= \frac{21}{30} \times \frac{2}{2} \\ &= \frac{42}{60} = \frac{7}{10} \end{aligned}$$

$$x = \frac{21 \cdot 2}{30 \cdot 2} = \frac{42}{60} = \frac{7}{10}$$

$$13 \quad \frac{3}{6}y = \frac{3}{5} = \frac{5}{6}$$

$$y = \frac{3}{5} \div \frac{3}{6}$$

$$y = \frac{3}{5} \times \frac{6}{3} = \frac{18}{25}$$

$$y = \frac{18}{25}$$

$$10 \quad \frac{3}{4}y = 1 \frac{4}{5}$$

$$y = 1 \frac{4}{5} \div \frac{3}{4} = \frac{9}{5} \times \frac{4}{3} = \frac{36}{15} = 2 \frac{2}{5}$$

~~scribbled out work~~

$$12 \quad 7x = 1 \frac{7}{10} \div 7$$

$$x = \frac{1 \frac{7}{10}}{7} = 7$$

$$x = \frac{17}{10} \div \frac{7}{1}$$

$$x = \frac{17}{10} \times \frac{1}{7} = \frac{17}{70}$$

$$x = 2$$

$$14 \quad \frac{2}{3}x = 8 \div \frac{2}{3}$$

$$x = 6 \div \frac{2}{3}$$

$$x = \frac{6}{1} \times \frac{3}{2}$$

$$x = \frac{18}{2} = 9$$

$$x = 9$$