

Solving Equations w/Fractions (X÷)

- X fractions \rightarrow cancel diagonally
 - \rightarrow multiply numerators
 - \rightarrow multiply denominators
 - \rightarrow simplest form (improper is OK)
- \div fractions \rightarrow change \div to mult. sign, and flip the 2nd fraction (reciprocal)
 - \rightarrow follow mult. rules
- mixed #'s must be changed to improper fractions before mult. / or dividing

$$2) 1) \frac{8}{1} \cdot \frac{x}{8} = 6 \frac{3}{4} \cdot \frac{8}{1}$$

$$3) \boxed{x = 54}$$

$$4) \frac{54}{8} = 6 \frac{3}{4}$$

$$5) 6 \frac{3}{4} = 6 \frac{3}{4}$$



$$1) \frac{27}{4} \cdot \frac{8^2}{1} = 54$$

$$\frac{54}{8} = 6 \frac{3}{4}$$

$$\begin{array}{r} 06 \\ 8 \overline{) 54} \\ \underline{-48} \\ 6 \end{array}$$

$$2) \quad \frac{6}{1} \cdot \frac{2}{3} = \frac{12}{6} \cdot \frac{1}{1}$$

$$3) \quad \boxed{4 = 4}$$

$$4) \quad \frac{2}{3} = \frac{4}{6}$$

$$5) \quad \frac{2}{3} = \frac{2}{3}$$



$$2) \quad \frac{6}{1} \cdot \frac{2}{3} = 4$$

$$\frac{4}{6} = \frac{2}{3}$$

2) 1)

$$\frac{6}{5} \cdot \frac{1}{2} = \frac{6}{10} = \frac{3}{5}$$

3)

$$\frac{6}{5} \cdot \frac{4}{5} = \frac{24}{25}$$

4)

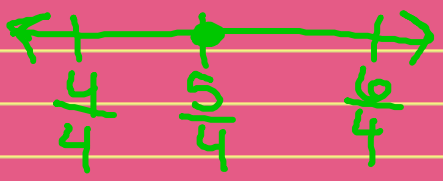
$$\frac{6}{5} \cdot \frac{5}{6} = 1$$

5)

$$\frac{6}{5} \cdot \frac{5}{6} = 1$$

$$2 \cdot \frac{5}{2} = 10$$

$$\frac{1}{3} \cdot \frac{5}{2} = \frac{5}{6}$$

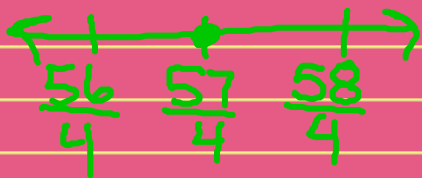


$$2) \frac{3}{2} \cdot 9\frac{1}{2} = \frac{27}{2} \cdot \frac{19}{2}$$

$$3) \boxed{\frac{57}{4} = b}$$

$$4) 9\frac{1}{2} = \frac{2}{3} \cdot \frac{57}{4}$$

$$5) 9\frac{1}{2} = 9\frac{1}{2}$$



$$\frac{3}{2} \cdot \frac{19}{2} = \frac{57}{4} \quad \begin{array}{r} 19 \\ \times 3 \\ \hline 57 \end{array}$$

$$\frac{2}{3} \cdot \frac{57}{4} = \frac{19}{2} = 9\frac{1}{2}$$

$$\begin{array}{r} 19 \\ 3 \overline{) 57} \\ \underline{-31} \\ 27 \end{array}$$

2) 1)

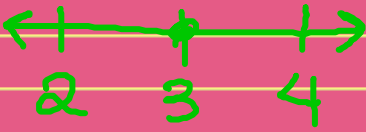
$$\sqrt{5} \cdot \sqrt{5} = 5 \cdot \sqrt{5}$$

3) 4)

$$\boxed{n = 3}$$
$$\sqrt[3]{5} \cdot 3 = 5$$

5)

$$5 = 5$$



$$\sqrt{5} \cdot \sqrt{5} = 5$$

$$\sqrt[5]{5} \cdot \sqrt{5} = 5$$

$$2) \quad \frac{1}{2} \cdot \frac{11}{2} = 3\frac{3}{8} \cdot \frac{1}{2}$$

$$3) \quad \boxed{\frac{11}{4} = \frac{27}{4}}$$

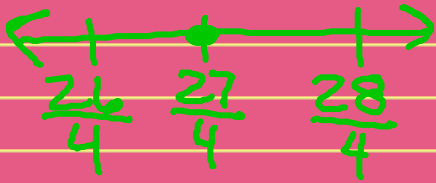
$$4) \quad \frac{\frac{27}{4}}{2} = 3\frac{3}{8}$$

$$5) \quad 3\frac{3}{8} = 3\frac{3}{8}$$

$$\frac{27}{4} \cdot \frac{2}{1} = \frac{27}{2}$$

$$\frac{27}{4} \div \frac{1}{2}$$

$$\frac{27}{4} \cdot \frac{1}{2} = \frac{27}{8} = 3\frac{3}{8}$$



$$3\frac{2}{3}P = 1\frac{7}{15}$$

$$2) \frac{\cancel{3}}{7} \cdot \frac{\cancel{11}}{3} P = 1\frac{7}{15} \cdot \frac{3}{11}$$

$$2\frac{22}{518} \cdot \frac{\cancel{31}}{11} = \frac{2}{5}$$

$$3) \boxed{P = \frac{2}{5}}$$

$$4) \frac{11}{3} \cdot \frac{2}{5} = 1\frac{7}{15}$$

$$\frac{11}{3} \cdot \frac{2}{5} = \frac{22}{15} = 1\frac{7}{15}$$

$$5) 1\frac{7}{15} = 1\frac{7}{15}$$



