

Pre-Algebra
Worksheet 5: Fractions III: Answers

$$(1) \quad \frac{3}{5} \times \frac{3}{4} = \frac{3 \times 3}{5 \times 4} = \frac{9}{20}$$

$$(2) \quad \frac{1}{2} \times \frac{5}{16} = \frac{5}{32}$$

$$(3) \quad -\frac{4}{3} \times \frac{5}{8} = -\frac{20}{24} = -\frac{5}{6}$$

$$(4) \quad \frac{14}{6} \times \left(-\frac{5}{16}\right) = -\frac{14 \times 5}{6 \times 16} = -\frac{70}{96} = -\frac{35}{48}$$

$$(5) \quad -4\frac{4}{6} \times \left(2\frac{2}{3}\right) = -\frac{6 \times 4 + 4}{6} \times \frac{3 \times 2 + 2}{3} = -\frac{28}{6} \times \frac{8}{3} = -\frac{28 \times 8}{6 \times 3} = -\frac{204}{18} = -\frac{102}{9} = -\frac{34}{3}$$

$$(6) \frac{1}{2} \quad (7) -\frac{3}{8} \quad (8) 3 \quad (9) -\frac{5}{12} \quad (10) -\frac{3}{8} \quad (11) 8 \quad (12) 3\frac{5}{21}$$

Solve the following equations for x and check your answers.

(13)

$$\begin{aligned} 4x &= \frac{3}{4} \\ 4x \times \frac{1}{4} &= \frac{3}{4} \times \frac{1}{4} \\ x &= \frac{3}{16} \end{aligned}$$

$$\text{check } 4 \times \frac{3}{16} = \frac{3 \times 4}{16} = \frac{3}{4}$$

(14)

$$\begin{aligned} \frac{4}{5}x &= 5 \\ \frac{5}{4} \times \frac{4}{5}x &= 5 \times \frac{5}{4} \\ x &= \frac{25}{4} \end{aligned}$$