

Fractions 10

Multiplying Mixed Fractions

To multiply mixed fractions we convert to an improper fractions.

After multiplying, we convert back to a mixed number.

Directions: Multiply then Reduce all fractions to lowest form.

$$1. \quad 2\frac{5}{7} \times 3\frac{1}{4} = 8\frac{23}{28}$$

$$\frac{19}{7} \times \frac{13}{4} = \frac{247}{28}$$

$$3. \quad 1\frac{2}{5} \times 2\frac{3}{7} = 3\frac{2}{5}$$

$$\frac{7}{5} \times \frac{17}{7} = \frac{17}{5} = 3\frac{2}{5}$$

$$5. \quad 7\frac{3}{7} \times 1\frac{9}{12} = 13$$

$$\frac{52}{7} \times \frac{21}{12} = \frac{1092}{84}$$

$$7. \quad 4\frac{9}{11} \times 2\frac{2}{3} = 12\frac{28}{33}$$

$$\frac{53}{11} \times \frac{8}{3} = \frac{424}{33}$$

$$9. \quad 1\frac{12}{13} \times 2\frac{7}{8} = 5\frac{55}{104}$$

$$\frac{25}{13} \times \frac{23}{8} = \frac{575}{104}$$

$$11. \quad 3\frac{5}{9} - \frac{1}{4} = 3\frac{11}{36}$$

$$2. \quad 4\frac{2}{3} \times 5\frac{1}{4} = 24\frac{1}{2}$$

$$7\frac{14}{3} \times \frac{21}{42} = \frac{147}{6}$$

$$4. \quad 6\frac{5}{6} \times 3\frac{1}{8} = 21\frac{17}{48}$$

$$\frac{41}{6} \times \frac{25}{8} = \frac{1025}{48}$$

$$6. \quad 8\frac{5}{8} \times \frac{6}{7} = 7\frac{11}{28}$$

$$4\frac{69}{8} \times \frac{6^3}{7} = \frac{207}{28}$$

$$8. \quad 5\frac{11}{12} \times 2\frac{3}{4} = 16\frac{13}{48}$$

$$\frac{71}{12} \times \frac{11}{4} = \frac{781}{48}$$

$$10. \quad 3\frac{7}{10} \times \frac{3}{5} = 2\frac{11}{50}$$

$$\frac{37}{10} \times \frac{3}{5} = \frac{111}{50}$$

$$12. \quad 2\frac{4}{7} + 3\frac{2}{5} = 5\frac{34}{35}$$

$$\frac{20}{7} + \frac{2}{5}$$

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Fractions

Homework

Multiplying Mixed Fractions

To multiply mixed fractions we convert to an improper fraction.

After multiplying, we convert back to a mixed number.

Directions: Multiply then Reduce all fractions to lowest form.

$$1. \quad 2\frac{6}{7} \times \frac{1}{11} = \boxed{\frac{20}{77}}$$

$$2. \quad 3\frac{2}{3} \times 2\frac{1}{5} = \boxed{8\frac{1}{15}}$$

$$3. \quad 1\frac{2}{5} \times 4\frac{2}{6} = \boxed{6\frac{1}{15}}$$

$$4. \quad 3\frac{2}{7} \times 5\frac{3}{8} = \boxed{17\frac{37}{56}}$$

$$5. \quad 6\frac{8}{9} \times 2\frac{2}{5} = \boxed{16\frac{8}{15}}$$

$$6. \quad 1\frac{11}{13} \times 3\frac{3}{4} = \boxed{6\frac{12}{13}}$$

$$7. \quad 3\frac{1}{10} \times 4\frac{3}{10} = \boxed{30\frac{53}{100}}$$

$$8. \quad 2\frac{6}{8} \times 1\frac{5}{8} = \boxed{4\frac{15}{32}}$$

$$9. \quad 2\frac{5}{12} \times 3\frac{2}{7} = \boxed{7\frac{79}{84}}$$

$$10. \quad 4\frac{2}{3} \times 5\frac{1}{7} = \boxed{24}$$

$$11. \quad 1\frac{4}{13} + 2\frac{2}{11} = \boxed{3\frac{70}{143}}$$

$$12. \quad 4\frac{7}{11} - \frac{1}{6} = \boxed{4\frac{31}{66}}$$

$$3 + \frac{70}{143} = \frac{429}{143} + \frac{70}{143} = \frac{499}{143}$$

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