MathVine - Pre-Algebra Name_____

Multiplying Mixed Numbers Date_____ Period_____

Multiply.

1) $1\frac{1}{4} * 1\frac{4}{6}$

2) $1\frac{3}{10} * 2\frac{2}{7}$

3) $3\frac{2}{8} * 1\frac{6}{15}$

4) $2\frac{1}{8} * 1\frac{3}{18}$

5) $1\frac{2}{5} * 3\frac{1}{5}$

6) $2\frac{5}{6} * 1\frac{2}{10}$

7) $1\frac{4}{5} * 1\frac{3}{10}$

8) $1\frac{4}{5} * 3\frac{3}{6}$

9) $1\frac{3}{5} * 1\frac{8}{17}$

MathVine - Pre-Algebra Name_____

Multiplying Mixed Numbers Date_____ Period_____

Multiply.

1) $1\frac{1}{4} * 1\frac{4}{6}$

Answer: $2\frac{1}{12}$

2) $1\frac{3}{10} * 2\frac{2}{7}$

Answer: $2\frac{34}{35}$

3) $3\frac{2}{8} * 1\frac{6}{15}$

Answer: $4\frac{11}{20}$

4) $2\frac{1}{8} * 1\frac{3}{18}$

Answer: $2\frac{23}{48}$

5) $1\frac{2}{5} * 3\frac{1}{5}$

Answer: $4\frac{12}{25}$

6) $2\frac{5}{6} * 1\frac{2}{10}$

Answer: $3\frac{2}{5}$

7) $1\frac{4}{5} * 1\frac{3}{10}$

Answer: $2\frac{17}{50}$

8) $1\frac{4}{5} * 3\frac{3}{6}$

Answer: $6\frac{3}{10}$

9) $1\frac{3}{5} * 1\frac{8}{17}$

Answer: $2\frac{6}{17}$

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Solution Steps

1) $1\frac{1}{4} * 1\frac{4}{6}$

Convert the mixed numbers to improper fractions

$1\frac{1}{4} = \frac{1 * 4 + 1}{4} = \frac{5}{4}$

$1\frac{4}{6} = \frac{1 * 6 + 4}{6} = \frac{10}{6}$

$\frac{5}{4} * \frac{10}{6}$

$\frac{(5 * 10)}{(4 * 6)}$

$\frac{(5 * 10^{5})}{(4^{2} * 6^{3})}$

$4\frac{1}{6}$

2) $1\frac{3}{10} * 2\frac{2}{7}$

Convert the mixed numbers to improper fractions

$1\frac{3}{10} = \frac{1 * 10 + 3}{10} = \frac{13}{10}$

$2\frac{2}{7} = \frac{2 * 7 + 2}{7} = \frac{16}{7}$

$\frac{13}{10} * \frac{16}{7}$

$\frac{(13 * 16)}{(10 * 7)}$

$\frac{(13 * 16^{8})}{(10^{5} * 7)}$

$2\frac{34}{35}$

3) $3\frac{2}{8} * 1\frac{6}{15}$

Convert the mixed numbers to improper fractions

$3\frac{2}{8} = \frac{3 * 8 + 2}{8} = \frac{26}{8}$

$1\frac{6}{15} = \frac{1 * 15 + 6}{15} = \frac{21}{15}$

$\frac{26}{8} * \frac{21}{15}$

$\frac{(26 * 21)}{(8 * 15)}$

$\frac{(26^{1}3 * 21^{7})}{(8^{4} * 15^{5})}$

$4\frac{11}{20}$

4) $2\frac{1}{8} * 1\frac{3}{18}$

Convert the mixed numbers to improper fractions

$2\frac{1}{8} = \frac{2 * 8 + 1}{8} = \frac{17}{8}$

$1\frac{3}{18} = \frac{1 * 18 + 3}{18} = \frac{21}{18}$

$\frac{17}{8} * \frac{21}{18}$

$\frac{(17 * 21)}{(8 * 18)}$

$\frac{(17 * 21^{7})}{(8 * 18^{6})}$

$2\frac{23}{48}$

5) $1\frac{2}{5} * 3\frac{1}{5}$

Convert the mixed numbers to improper fractions

$1\frac{2}{5} = \frac{1 * 5 + 2}{5} = \frac{7}{5}$

$3\frac{1}{5} = \frac{3 * 5 + 1}{5} = \frac{16}{5}$

$\frac{7}{5} * \frac{16}{5}$

$\frac{(7 * 16)}{(5 * 5)}$

$4\frac{12}{25}$

6) $2\frac{5}{6} * 1\frac{2}{10}$

Convert the mixed numbers to improper fractions

$2\frac{5}{6} = \frac{2 * 6 + 5}{6} = \frac{17}{6}$

$1\frac{2}{10} = \frac{1 * 10 + 2}{10} = \frac{12}{10}$

$\frac{17}{6} * \frac{12}{10}$

$\frac{(17 * 12)}{(6 * 10)}$

$\frac{(17 * 12^{6})}{(6^{1} * 10^{5})}$

$20\frac{2}{5}$

7) $1\frac{4}{5} * 1\frac{3}{10}$

Convert the mixed numbers to improper fractions

$1\frac{4}{5} = \frac{1 * 5 + 4}{5} = \frac{9}{5}$

$1\frac{3}{10} = \frac{1 * 10 + 3}{10} = \frac{13}{10}$

$\frac{9}{5} * \frac{13}{10}$

$\frac{(9 * 13)}{(5 * 10)}$

$2\frac{17}{50}$

8) $1\frac{4}{5} * 3\frac{3}{6}$

Convert the mixed numbers to improper fractions

$1\frac{4}{5} = \frac{1 * 5 + 4}{5} = \frac{9}{5}$

$3\frac{3}{6} = \frac{3 * 6 + 3}{6} = \frac{21}{6}$

$\frac{9}{5} * \frac{21}{6}$

$\frac{(9 * 21)}{(5 * 6)}$

$\frac{(9^{3} * 21)}{(5 * 6^{2})}$

$6\frac{3}{10}$

9) $1\frac{3}{5} * 1\frac{8}{17}$

Convert the mixed numbers to improper fractions

$1\frac{3}{5} = \frac{1 * 5 + 3}{5} = \frac{8}{5}$

$1\frac{8}{17} = \frac{1 * 17 + 8}{17} = \frac{25}{17}$

$\frac{8}{5} * \frac{25}{17}$

$\frac{(8 * 25)}{(5 * 17)}$

$\frac{(8 * 25^{5})}{(5^{1} * 17)}$

$2\frac{6}{17}$