MathVine - Pre-Algebra Name_____

Multiplying Mixed Numbers Date_____ Period_____

Multiply.

1) $1\frac{6}{21} * 1\frac{2}{14}$

2) $4\frac{2}{4} * 2\frac{1}{14}$

3) $1\frac{8}{16} * 1\frac{3}{4}$

4) $1\frac{1}{12} * 1\frac{3}{16}$

5) $2\frac{1}{4} * 1\frac{4}{10}$

6) $2\frac{6}{8} * 2\frac{1}{4}$

7) $1\frac{13}{16} * 1\frac{2}{5}$

8) $1\frac{2}{20} * 1\frac{7}{23}$

9) $3\frac{4}{5} * 1\frac{7}{16}$

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Multiply.

1) $1\frac{6}{21} * 1\frac{2}{14}$

Answer: $1\frac{23}{49}$

2) $4\frac{2}{4} * 2\frac{1}{14}$

Answer: $9\frac{9}{28}$

3) $1\frac{8}{16} * 1\frac{3}{4}$

Answer: $2\frac{5}{8}$

4) $1\frac{1}{12} * 1\frac{3}{16}$

Answer: $1\frac{55}{192}$

5) $2\frac{1}{4} * 1\frac{4}{10}$

Answer: $3\frac{3}{20}$

6) $2\frac{6}{8} * 2\frac{1}{4}$

Answer: $6\frac{3}{16}$

7) $1\frac{13}{16} * 1\frac{2}{5}$

Answer: $2\frac{43}{80}$

8) $1\frac{2}{20} * 1\frac{7}{23}$

Answer: $1\frac{10}{23}$

9) $3\frac{4}{5} * 1\frac{7}{16}$

Answer: $5\frac{37}{80}$

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Solution Steps

1) $1\frac{6}{21} * 1\frac{2}{14}$

Convert the mixed numbers to improper fractions

$1\frac{6}{21} = \frac{1 * 21 + 6}{21} = \frac{27}{21}$

$1\frac{2}{14} = \frac{1 * 14 + 2}{14} = \frac{16}{14}$

$\frac{27}{21} * \frac{16}{14}$

$\frac{(27 * 16)}{(21 * 14)}$

$\frac{(27^{9} * 16^{8})}{(21^{7} * 14^{7})}$

$1\frac{23}{49}$

2) $4\frac{2}{4} * 2\frac{1}{14}$

Convert the mixed numbers to improper fractions

$4\frac{2}{4} = \frac{4 * 4 + 2}{4} = \frac{18}{4}$

$2\frac{1}{14} = \frac{2 * 14 + 1}{14} = \frac{29}{14}$

$\frac{18}{4} * \frac{29}{14}$

$\frac{(18 * 29)}{(4 * 14)}$

$\frac{(18^{9} * 29)}{(4^{2} * 14^{7})}$

$18\frac{9}{14}$

3) $1\frac{8}{16} * 1\frac{3}{4}$

Convert the mixed numbers to improper fractions

$1\frac{8}{16} = \frac{1 * 16 + 8}{16} = \frac{24}{16}$

$1\frac{3}{4} = \frac{1 * 4 + 3}{4} = \frac{7}{4}$

$\frac{24}{16} * \frac{7}{4}$

$\frac{(24 * 7)}{(16 * 4)}$

$\frac{(24^{6} * 7)}{(16^{2} * 4^{1})}$

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4) $1\frac{1}{12} * 1\frac{3}{16}$

Convert the mixed numbers to improper fractions

$1\frac{1}{12} = \frac{1 * 12 + 1}{12} = \frac{13}{12}$

$1\frac{3}{16} = \frac{1 * 16 + 3}{16} = \frac{19}{16}$

$\frac{13}{12} * \frac{19}{16}$

$\frac{(13 * 19)}{(12 * 16)}$

$1\frac{55}{192}$

5) $2\frac{1}{4} * 1\frac{4}{10}$

Convert the mixed numbers to improper fractions

$2\frac{1}{4} = \frac{2 * 4 + 1}{4} = \frac{9}{4}$

$1\frac{4}{10} = \frac{1 * 10 + 4}{10} = \frac{14}{10}$

$\frac{9}{4} * \frac{14}{10}$

$\frac{(9 * 14)}{(4 * 10)}$

$\frac{(9 * 14^{7})}{(4^{2} * 10^{5})}$

$6\frac{3}{10}$

6) $2\frac{6}{8} * 2\frac{1}{4}$

Convert the mixed numbers to improper fractions

$2\frac{6}{8} = \frac{2 * 8 + 6}{8} = \frac{22}{8}$

$2\frac{1}{4} = \frac{2 * 4 + 1}{4} = \frac{9}{4}$

$\frac{22}{8} * \frac{9}{4}$

$\frac{(22 * 9)}{(8 * 4)}$

$\frac{(22^{1}1 * 9)}{(8^{4} * 4^{2})}$

$12\frac{3}{8}$

7) $1\frac{13}{16} * 1\frac{2}{5}$

Convert the mixed numbers to improper fractions

$1\frac{13}{16} = \frac{1 * 16 + 13}{16} = \frac{29}{16}$

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

$\frac{29}{16} * \frac{7}{5}$

$\frac{(29 * 7)}{(16 * 5)}$

$2\frac{43}{80}$

8) $1\frac{2}{20} * 1\frac{7}{23}$

Convert the mixed numbers to improper fractions

$1\frac{2}{20} = \frac{1 * 20 + 2}{20} = \frac{22}{20}$

$1\frac{7}{23} = \frac{1 * 23 + 7}{23} = \frac{30}{23}$

$\frac{22}{20} * \frac{30}{23}$

$\frac{(22 * 30)}{(20 * 23)}$

$\frac{(22^{1}1 * 30^{3})}{(10^{1} * 23)}$

$1\frac{10}{23}$

9) $3\frac{4}{5} * 1\frac{7}{16}$

Convert the mixed numbers to improper fractions

$3\frac{4}{5} = \frac{3 * 5 + 4}{5} = \frac{19}{5}$

$1\frac{7}{16} = \frac{1 * 16 + 7}{16} = \frac{23}{16}$

$\frac{19}{5} * \frac{23}{16}$

$\frac{(19 * 23)}{(5 * 16)}$

$5\frac{37}{80}$