

MULTIPLYING FRACTIONS AND MIXED NUMBERS

Directions: Solve each of the following. Express all of your answers in lowest terms.

EX: $2\frac{2}{5} \cdot \frac{5}{6} \longrightarrow \frac{12}{5} \cdot \frac{5}{6} \longrightarrow \frac{\overset{2}{\cancel{12}}}{\underset{1}{\cancel{5}}} \cdot \frac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{6}}} \longrightarrow \frac{2}{1} \longrightarrow \textcircled{2}$

All mixed numbers must be renamed to an improper fraction when multiplying or dividing.

Use cancellation to reduce. Multiply the numerators for the top number and your denominators to get the bottom.

1) $1\frac{7}{8} \cdot \frac{4}{5}$

$1\frac{1}{2}$

2) $4\frac{3}{8} \cdot \frac{4}{7}$

$2\frac{1}{2}$

3) $2\frac{2}{3} \cdot \frac{3}{8}$

1

4) $7\frac{1}{2} \cdot \frac{4}{5}$

12

5) $3\frac{3}{4} \cdot \frac{9}{10}$

$3\frac{3}{8}$

6) $2\frac{1}{2} \cdot \frac{8}{14}$

$1\frac{3}{7}$

7) $5\frac{1}{6} \cdot \frac{3}{4}$

$3\frac{7}{8}$

8) $2\frac{7}{9} \cdot \frac{3}{5}$

$1\frac{2}{3}$

9) $9\frac{3}{4} \cdot \frac{8}{13}$

6

10) $5\frac{3}{9} \cdot \frac{9}{24}$

2

11) $7\frac{1}{7} \cdot \frac{21}{25}$

6

12) $3\frac{3}{5} \cdot \frac{5}{9}$

2

13) $4\frac{2}{3} \cdot 3\frac{3}{5}$

$16\frac{4}{5}$

14) $6\frac{2}{9} \cdot 3\frac{6}{7}$

24

15) $3\frac{5}{9} \cdot 2\frac{2}{5}$

$8\frac{8}{15}$

16) $10\frac{2}{5} \cdot 3\frac{1}{13}$

32

17) $7\frac{1}{2} \cdot 2\frac{2}{5}$

18

18) $2\frac{2}{9} \cdot 3\frac{6}{10}$

8

19) $8\frac{5}{9} \cdot 3\frac{3}{11}$

28

20) $1\frac{1}{5} \cdot 2\frac{1}{12}$

$2\frac{1}{2}$

21) $3\frac{3}{7} \cdot 3\frac{5}{8}$

$12\frac{3}{7}$

22) $2\frac{5}{8} \cdot 3\frac{1}{3}$

$8\frac{3}{4}$

23) $7\frac{1}{5} \cdot 4\frac{7}{12}$

33

24) $5\frac{5}{6} \cdot 2\frac{1}{7}$

$12\frac{1}{2}$