

Name: \_\_\_\_\_

## Multiplying Mixed Numbers

$$2\frac{2}{5} \times 1\frac{3}{4}$$

**Step 1:** Write the mixed numbers as fractions.

$$\frac{12}{5} \times \frac{7}{4}$$

**Step 2:** Multiply the numerators.

$$\frac{12}{5} \times \frac{7}{4} = \frac{84}{20}$$

**Step 3:** Multiply the denominators.

$$\frac{12}{5} \times \frac{7}{4} = \frac{84}{20}$$

**Step 4:** Simplify your answer if possible.

$$\frac{12}{5} \times \frac{7}{4} = \frac{84}{20} = 4\frac{4}{20} = 4\frac{1}{5}$$

a.  $2\frac{1}{2} \times 3\frac{1}{3}$

b.  $\frac{4}{9} \times 2\frac{1}{4}$

c.  $3\frac{1}{4} \times 1\frac{1}{2}$

d.  $7\frac{1}{5} \times 1\frac{1}{3}$

e.  $6\frac{1}{3} \times \frac{1}{2}$

f.  $4\frac{1}{5} \times 20$

g.  $3 \times 2\frac{2}{3}$

h.  $2\frac{5}{6} \times 1\frac{3}{5}$

i.  $15 \times 1\frac{1}{3}$

# ANSWER KEY

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a.  $2\frac{1}{2} \times 3\frac{1}{3}$

$$\frac{5}{2} \times \frac{10}{3} = \frac{50}{6} = 8\frac{2}{6} = 8\frac{1}{3}$$

b.  $\frac{4}{9} \times 2\frac{1}{4}$

$$\frac{4}{9} \times \frac{9}{4} = \frac{36}{36} = 1$$

c.  $3\frac{1}{4} \times 1\frac{1}{2}$

$$\frac{13}{4} \times \frac{3}{2} = \frac{39}{8} = 4\frac{7}{8}$$

d.  $7\frac{1}{5} \times 1\frac{1}{3}$

$$\frac{36}{5} \times \frac{4}{3} = \frac{144}{15} = 9\frac{9}{15} = 9\frac{3}{5}$$

e.  $6\frac{1}{3} \times \frac{1}{2}$

$$\frac{19}{3} \times \frac{1}{2} = \frac{19}{6} = 3\frac{1}{6}$$

f.  $4\frac{1}{5} \times 20$

$$\frac{21}{5} \times \frac{20}{1} = \frac{420}{5} = 84$$

g.  $3 \times 2\frac{2}{3}$

$$\frac{3}{1} \times \frac{8}{3} = \frac{24}{3} = 8$$

h.  $2\frac{5}{6} \times 1\frac{3}{5}$

$$\frac{17}{6} \times \frac{8}{5} = \frac{136}{30} = 4\frac{16}{30} = 4\frac{8}{15}$$

i.  $15 \times 1\frac{1}{3}$

$$\frac{15}{1} \times \frac{4}{3} = \frac{60}{3} = 20$$