

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

	2	$\frac{1}{4}$
1	$1 \times 2 = 2$	$\frac{1}{4} \times \frac{1}{4} = \frac{1}{4}$
2	$2 \times \frac{1}{2} = \frac{2}{2} = 1$	$\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$

$$2 + 1 + \frac{1}{4} + \frac{1}{8}$$

$$3 \frac{1}{4} + \frac{1}{8}$$

$$\frac{2}{8} + \frac{1}{8} = \frac{3}{8}$$

$$3\frac{3}{8}$$

5. a) $2\frac{3}{10}$
 \times
 $10 \times 2 + 3$
 $\frac{23}{10}$

b) $4\frac{1}{8}$
 \times
 $4 \times 8 = 32$
 $\frac{33}{8}$

c) $3\frac{5}{6}$
 \times
 $\frac{23}{6}$

d) $1\frac{2}{3}$
 $3 \times 1 + 2$
 $\frac{5}{3}$

e) $3\frac{2}{5}$
 \times
 $\frac{17}{5}$

f) $5\frac{1}{2}$
 \times
 $\frac{11}{2}$

g) $2\frac{4}{7}$
 \times
 $\frac{7}{2}$

h) $3\frac{5}{9}$
 $3 \times 9 = 27 + 5 = \frac{32}{9}$

i) $6\frac{2}{3}$
 \times
 $\frac{3}{20}$

$$a) \frac{11}{3} = 3\frac{2}{3}$$

$$b) \frac{15}{4} = 3\frac{3}{4}$$

$$c) \frac{21}{5} = 4\frac{1}{5}$$

$$d) \frac{11}{8} = 1\frac{3}{8}$$

$$e) \frac{19}{6} = 3\frac{1}{6}$$

$$f) \frac{31}{7} = 4\frac{3}{7}$$

$$g) \frac{11}{2} = 5\frac{1}{2}$$

$$h) \frac{43}{10} = 4\frac{3}{10}$$

$$i) \frac{37}{8} = 4\frac{5}{8}$$

$$9) a) 3 \times 2 \frac{1}{4}$$

estimation
 $3 \times 2 = 6$

$$\underline{3} \times \frac{9}{4} = \frac{27}{4} = \frac{27}{3} = \boxed{6 \frac{3}{4}}$$

b) $4 \times 2\frac{1}{8}$

estimation

 $4 \times 2 = 8$

$$\frac{4 \times 17}{1 \quad 8} = \frac{68}{8}$$

$$8 \begin{array}{l} \div 4 \\ \frac{4}{8} \\ \div 4 \end{array} \quad \boxed{8\frac{1}{2}}$$

c) $1\frac{2}{3} \times 2$

$$2 \times 2 = 4$$

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$$

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

estimation
 $3 \times 3 = 9$

$$\begin{array}{r} 16 \\ \times 3 \\ \hline 48 \end{array}$$

$$\frac{16}{5} \times \frac{3}{1}$$

$$\frac{48}{5}$$

$$\boxed{9\frac{3}{5}}$$