

**MIXED NUMBERS/IMPROPER FRACTIONS – PRACTICE QUESTIONS
NON-CALCULATOR**



1.

Convert each improper fraction into a mixed number:

(a) $\frac{3}{2}$

(b) $\frac{7}{3}$

(c) $\frac{15}{4}$

(d) $\frac{20}{3}$

(e) $\frac{23}{10}$

(f) $\frac{21}{8}$

(g) $\frac{27}{5}$

(h) $\frac{30}{7}$

(i) $\frac{31}{9}$

(j) $\frac{26}{3}$

(k) $\frac{40}{11}$

(l) $\frac{403}{100}$

(m) $\frac{65}{12}$

(n) $\frac{71}{20}$

2.

Convert each mixed number into an improper fraction:

(a) $1\frac{1}{2}$

(b) $2\frac{1}{4}$

(c) $3\frac{2}{5}$

(d) $4\frac{3}{4}$

(e) $6\frac{3}{5}$

(f) $3\frac{5}{6}$

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

(h) $10\frac{1}{3}$

(i) $7\frac{4}{5}$

(j) $8\frac{5}{6}$

(k) $2\frac{7}{11}$

(l) $9\frac{2}{7}$

(m) $12\frac{3}{4}$

(n) $5\frac{5}{8}$

3.

Work out, giving your answer as a fully simplified mixed number:

(a) $1\frac{1}{4} + \frac{2}{3}$

(b) $\frac{7}{8} + 1\frac{1}{3}$

(c) $1\frac{2}{7} + 2\frac{1}{2}$

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

(e) $3\frac{1}{2} + 2\frac{2}{5}$

(f) $1\frac{3}{7} + 2\frac{2}{3}$

(g) $3\frac{1}{3} + 2\frac{3}{4}$

(h) $6\frac{2}{3} + 1\frac{3}{4}$

4.

Work out, giving your answer as a fully simplified mixed number:

(a) $3\frac{1}{2} - \frac{5}{8}$

(b) $2\frac{2}{5} - \frac{3}{4}$

(c) $4\frac{1}{6} - 2\frac{1}{2}$

(d) $2\frac{1}{4} - \frac{7}{10}$

(e) $3\frac{1}{3} - 1\frac{2}{5}$

(f) $4\frac{1}{6} - 1\frac{1}{4}$

(g) $3\frac{2}{3} - 1\frac{3}{4}$

(h) $4\frac{1}{8} - 2\frac{2}{3}$

5.

Work out, giving your answer as a fully simplified mixed number:

(a) $1\frac{2}{3} \times 1\frac{1}{2}$

(b) $1\frac{3}{4} \times 2\frac{1}{3}$

(c) $3\frac{1}{2} \times 2\frac{2}{5}$

(d) $3\frac{1}{3} \times 2\frac{2}{3}$

(e) $2\frac{1}{5} \times 1\frac{1}{3}$

(f) $4\frac{2}{3} \times 1\frac{1}{4}$

(g) $6\frac{1}{4} \times 1\frac{2}{3}$

(h) $3\frac{3}{10} \times 2\frac{2}{3}$

6.

Work out, giving your answer as a fully simplified mixed number:

(a) $2\frac{2}{5} \div 1\frac{1}{2}$

(b) $3\frac{1}{4} \div 1\frac{1}{3}$

(c) $4\frac{1}{2} \div 1\frac{3}{4}$

(d) $3\frac{1}{3} \div 1\frac{1}{10}$

(e) $6\frac{2}{3} \div 2\frac{2}{5}$

(f) $7\frac{1}{2} \div 3\frac{1}{3}$

(g) $7\frac{1}{7} \div 3\frac{1}{8}$

(h) $4\frac{2}{7} \div 2\frac{2}{9}$

7.

Work out:

(a) $1\frac{1}{2} \times 20$

(b) $2\frac{2}{3} \times 9$

(c) $21 \times 1\frac{3}{7}$

(d) $25 \times 2\frac{2}{5}$

(e) $18 \div 1\frac{1}{2}$

(f) $25 \div 1\frac{2}{3}$

(g) $35 \div 3\frac{1}{2}$

(h) $110 \div 4\frac{2}{5}$

8.

Work out, giving your answer as a fully simplified mixed number:

(a) $2\frac{3}{4} + 1\frac{1}{3}$

(b) $3\frac{1}{3} \times 1\frac{3}{8}$

(c) $5\frac{1}{3} - 2\frac{2}{5}$

(d) $6\frac{3}{4} \div 1\frac{2}{7}$

(e) $5\frac{1}{2} \times 2\frac{2}{5}$

(f) $3\frac{5}{6} + 2\frac{1}{2}$

(g) $7\frac{1}{3} - 3\frac{1}{2}$

(h) $3\frac{3}{5} \div 2\frac{1}{2}$