

3.

a) $\frac{68}{236} \neq \frac{68 \div 2}{236 \div 2}$

H.C.F. of 68 and 236 is 2

$$\frac{68}{2} = 34 \qquad \frac{236}{2} = 118$$

$$\frac{68}{236} = \frac{34}{118} \qquad \frac{68}{236} = \frac{68 \div 2}{236 \div 2} = \frac{34}{118}$$

b) $\frac{102}{119}$

H.C.F. of 102 and 119 is 1

$$\frac{102}{2} = 51 \qquad \frac{119}{2} = 59.5$$

$$\frac{102}{119} = \frac{102 \div 1}{119 \div 1} = \frac{102}{119}$$

$$c) \frac{153}{204}$$

The H.C.F. of 153 and 204 is 3

$$\frac{153}{204} = \frac{153 \div 3}{204 \div 3} = \frac{51}{68}$$

$$\frac{153}{204} = \frac{51}{68}$$

$$d) \frac{129}{243}$$

The H.C.F. of 129 and 243

$$= 3$$

$$\frac{129}{243} = \frac{129 \div 3}{243 \div 3} = \frac{43}{81}$$

$$\begin{array}{r} 154 \\ \hline 238 \end{array}$$

The H.C.F. of 154 and 238

is 2

$$\underline{154 \div 2 = 77}$$

$$\underline{154} = 77$$

$$238 \div 2 = 119$$

$$\underline{238} = 119$$

$$\begin{array}{r} 198 \\ \hline 297 \end{array}$$

The H.C.F. of 198 and 297 is 3

$$\underline{198 \div 3 = 66}$$

$$297 \div 3 = 99$$

$$\underline{198} = 66$$

$$\underline{297} = 99$$

$$g) \begin{array}{r} 117 \\ \hline 189 \end{array}$$

The H.C.F. of 117 and 189 is

3

$$\begin{array}{l} 117 \div 3 = 39 \\ 189 \div 3 = 63 \end{array} \quad \begin{array}{l} 117 \\ \hline 189 \end{array} = \frac{39}{63}$$

$$h) \begin{array}{r} 304 \\ \hline 368 \end{array}$$

The H.C.F. of 304 and 368

is 2

$$\begin{array}{l} 304 \div 2 = 152 \\ 368 \div 2 = 184 \end{array} \quad \begin{array}{l} 304 \\ \hline 368 \end{array} = \frac{152}{184}$$

$$i) \begin{array}{r} 115 \\ 345 \end{array}$$

The H.C.F. of 115 and 345 is 5

$$\begin{array}{l} \underline{115 \div 5 = 23} \\ \underline{345 \div 5 = 69} \end{array}$$

$$\begin{array}{l} \underline{115 = 23} \\ \underline{345 = 69} \end{array}$$

$$ii) \begin{array}{r} 160 \\ 720 \end{array}$$

The H.C.F. of 160 and 720 is 80

$$\underline{160 \div 80 = 2}$$

$$\underline{720 \div 80 = 9}$$

$$\underline{160 = 2}$$

$$\underline{720 = 9}$$

v) -

a) $\frac{13}{16}$

b) $\frac{8}{7}$ ✓

c) $\frac{17}{8}$ ✓

d) $\frac{23}{25}$

e) $\frac{38}{11}$ ✓

f) $\frac{48}{50}$

g) $\frac{25}{22}$ ✓

h) $\frac{1}{7}$ ✓

i) $\frac{45}{9}$ ✓

~~v)~~ $\frac{63}{65}$