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3) Reduce the following Fractions to their lowest form :

a) $\frac{68}{136}$

Solution :

$$\frac{\cancel{68}^{34}}{136} = \frac{\cancel{34}^{17}}{\cancel{68}} = \frac{\cancel{17}^1}{34} = \frac{1}{2}$$

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

Solution :

$$\frac{102 \div 17}{119 \div 17} = \frac{6}{7}$$

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

Solution :

$$\frac{\cancel{153}^{51}}{\cancel{204}} = \frac{\cancel{51}^3}{\cancel{68}^4} = \frac{3}{4}$$

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

Solution:

$$\frac{\cancel{129}^{43}}{\cancel{243}^{81}} = \frac{\cancel{43}}{\cancel{81}}$$

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

e) $\frac{154}{238}$

Solution:

$$\frac{\cancel{154}^{77}}{\cancel{238}^{119}} = \frac{\cancel{77}^{11}}{\cancel{119}^{17}} = \frac{11}{17}$$

a) $\frac{198}{297}$

Solution:

$$198 \div 9 = 22 \div 11 = 11$$

$$297 \div 9 = 33 \div 11 = 17$$

g) $\frac{117}{189}$

Solution:

$$117 \div 9 = 13$$

$$189 \div 9 = 21$$

h) $\frac{304}{368}$

Solution:

$$304 \div 4 = 76 \div 4 = 19$$

$$368 \div 4 = 92 \div 4 = 23$$

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i) $\frac{115}{345}$

Solution:

$$\frac{115 \div 5}{345 \div 5} = \frac{23 \div 3}{69 \div 3} = \frac{7 \div 7}{23 \div 7} = \frac{1}{3}$$

j) $\frac{160}{720}$

Solution:

$$\frac{160 \div 2}{720 \div 2} = \frac{80 \div 2}{360 \div 2} = \frac{40 \div 5}{180 \div 5} = \frac{8 \div 2}{36 \div 2} =$$

$$\frac{4 \div 2}{18 \div 2} = \frac{2}{9}$$

4) Tick (✓) the fractions which are proper fractions:

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

b) $\frac{8}{7} = X$

c) $\frac{17}{8} = X$

d) $\frac{23}{26} = \checkmark$

e) $\frac{38}{4} = X$

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

g) $\frac{25}{21} = X$

h) $\frac{1}{7} = \checkmark$

i) $\frac{45}{9} = X$

j) $\frac{63}{65} = \checkmark$