

Hw and Ch 15.2
3 28 23 18 21

Reduce the following fractions to their lowest term.

(a) $168/136$

Ans $\frac{168 \div 2 = 84 \div 2 = 42 \div 2 = 21 \div 17 = 1}{136 \div 2 = 68 \div 2 = 34 \div 17 = 2}$

(b) $102/119$

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

(c) $153/204$

Ans $\frac{153 \div 3 = 51 \div 17 = 3}{204 \div 3 = 68 \div 17 = 4}$

(d) $129/243$

Ans $\frac{129}{243} = \frac{43}{81}$

e) $154 / 238$

Ans $\frac{154}{238} \div 2 = 77 \overset{7}{\cancel{7}} \div \overset{7}{\cancel{7}} = 11$
 $\frac{238}{238} \div 2 = 119 \div 7 = 17$

f) $\frac{198}{297} \div 3 = \frac{66}{99} \div 11 = \frac{6}{9} \div 3 = 2$
 $\frac{297}{297} \div 3 = 99 \div 11 = 9 \div 3 = 3$

g) $\frac{117}{189} \div 3 = \frac{39}{63} \div 3 = 13$
 $\frac{189}{189} \div 3 = 63 \div 3 = 21$

h) $\frac{304}{368} \div 4 = \frac{76}{92} \div 4 = 19$
 $\frac{368}{368} \div 4 = 92 \div 4 = 23$

i) $\frac{115}{345} \div 5 = \frac{23}{69} \div 3$

j) $\frac{160}{720} \div 10 = \frac{16}{72} \div 8 = 2$
 $\frac{720}{720} \div 10 = 72 \div 8 = 9$