Fraction Simplification Practice

Name: _____ Date: _____

Question 1

Simplify the following fractions

l. $\frac{3}{9}$

||. <u>16</u> ||. |||. $\frac{20}{25}$

|√. <u>81</u> 135

V. -8 20

 \bigvee I. $\frac{8}{20}$

VII. <u>90</u> 84 VIII. <u>105</u> 135

|X. $\frac{-35}{40}$

 $X. \frac{10}{9}$

XI. $\frac{208}{256}$

XII. $\frac{-24}{21}$

 $XIII. \frac{801}{702}$

XIV. <u>1,332</u> 2,880

Fraction Simplification Practice

Kev Name: Date:

Question 1

Simplify the following fractions

Factors of 3:1,3 Factors of 9:1,3,9 Largest Shared Factor: 3

Factors of 16:1,2,4,8,16 Factors of 8:1,2,4,8 Largest Shared Factor: 8

Factors of 20:1,2,4,5,10,20 Factors of 25:1,5,25 Largest Shared Factor: 5

Factors of 81:1,3,9,27,81 Factors of 135:1,3,5,9,15,27,45,135 Largest Shared Factor: 27

 $\sqrt{\frac{-8}{20}}$

 $-\frac{8 \div 4}{20 \div 4} = -\frac{2}{5}$

Factors of 8:1,2,4,8 Factors of 20:1,2,4,5,10,20 Largest Shared Factor: 4

 $\sqrt{\frac{8}{20}}$

Factors of 8:1,2,4,8 Factors of 20:1,2,4,5,10,20 Largest Shared Factor: 4

 $V || \frac{90}{84}$

Factors of 90:1,2,3,5,6,9,10, 15,18,30,45,90 Factors of 84:1,2,3,4,6,7,12,

14,21,28,42,84 Largest Shared Factor: 6 VIII. 105 135

Factors of 105:1,3,5,7,15,21,35,105 Factors of 135:1,3,5,9,15,27,45,135 Largest Shared Factor: 15

 $-\frac{35 \div 5}{40 \div 5} = -\frac{7}{8}$

Factors of 35:1,5,7,35 Factors of 40:1,2,4,5,8,10,20,40 Largest Shared Factor: 5

Factors of 10:1,2,5,10 Factors of 9:1,3,9 Largest Shared Factor: 1

 $\frac{208 \div 16}{256 \div 16} = \frac{13}{16}$

Factors of 208:1,2,4,8,13,16,26, 52,104,208

Factors of 256:1,2,4,8,16,32,64,

Largest Shared Factor: 16

 $-\frac{24 \div 3}{21 \div 3} = -\frac{8}{7}$

Factors of 24:1,2,3,4,6,8,12,24 Factors of 21:1,3,7,21 Largest Shared Factor: 3

 $\frac{801 \div 9}{702 \div 9} = \frac{89}{78}$

Factors of 801:1,3,9,89,267,801 Factors of 702:1,2,3,6,9,13,18,26,27,39,54,78,117,234,351,702 Largest Shared Factor: 9

 $\frac{1,332 \div 36}{2,880 \div 36} = \frac{37}{80}$

Factors of 1,332:1,2,3,4,6,9,12,18,36,37,74,111,148,222,333,444,666,1,332 Factors of 2,880:1,2,3,4,5,6,8,9,10,12,15,16,18,20,24,30,32,36,40,45,48,60, 64,72,80,90,96,120,144,160,180,192,240,288,320,360,480,576,720, 960.1440.2880