Name _____ Date _____

Two Methods for Finding Common Denominators

A

$$\frac{3}{8} + \frac{2}{5}$$

$$\frac{3}{8} \times \frac{5}{5} = \frac{15}{40} \qquad \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$$

$$\frac{15}{40} + \frac{16}{40}$$

B

$$\frac{3}{8} + \frac{2}{5}$$

Multiples of 8: x1 x2 x3 x4 x5

8, 16, 24, 32, (40), 48

Multiples of 5: x1 x2 x3 x4 x5 x6 x7 x8

5, 10, 15, 20, 25, 30, 35, (40), 45

The lowest common denominator is 40

$$\frac{3}{8} \times \frac{5}{5} = \frac{15}{40} \qquad \frac{2}{5} \times \frac{8}{8} = \frac{16}{40}$$

$$\frac{15}{40} + \frac{16}{40}$$

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Two Methods for Finding Common Denominators

C

$$\frac{3}{5} + \frac{7}{10}$$

$$\frac{3}{5} \times \frac{10}{10} = \frac{30}{50} \qquad \frac{7}{10} \times \frac{5}{5} = \frac{35}{50}$$

$$\frac{30}{50} + \frac{35}{50}$$

D

$$\frac{3}{5} + \frac{7}{10}$$

Multiples of 5: x1 x2

5, (10,) 15, 20, 25

Multiples of 10: x1

(10,) 20, 30, 40, 50

$$\frac{3}{5} \times \frac{2}{2} = \frac{6}{10} \qquad \frac{7}{10} \times \frac{1}{1} = \frac{7}{10}$$

$$\frac{6}{10} + \frac{7}{10}$$

The lowest common denominator is 10

Name _____ Date _____

Two Methods for Finding Common Denominators

E

$$\frac{1}{3} + \frac{7}{11}$$

$$\frac{1}{3} \times \frac{11}{11} = \frac{11}{33} \qquad \frac{7}{11} \times \frac{3}{3} = \frac{21}{33}$$

$$\frac{11}{33} + \frac{21}{33}$$

F

$$\frac{1}{3} + \frac{7}{11}$$

Multiples of 3: x1 3, x2 6, x3 9, x4 12, x5 15, x6 18, x7 21, x8 24, x9 27, x10 30, x11 (33), 36

Multiples of 11: x1 11, x2 22, x3 (33), 44, 55, 66

$$\frac{1}{3} \times \frac{11}{11} = \frac{11}{33} \qquad \frac{7}{11} \times \frac{3}{3} = \frac{21}{33}$$

$$\frac{11}{33} + \frac{21}{33}$$

The lowest common denominator is 33