

## Using Common Denominators

### Section A: Equivalent fractions

Convert each of the fractions to an equivalent fraction with the denominator shown.

1

$$\frac{14}{15} = \frac{\quad}{30}$$

2

$$\frac{5}{12} = \frac{\quad}{36}$$

3

$$\frac{11}{20} = \frac{\quad}{100}$$

4

$$\frac{8}{9} = \frac{\quad}{45}$$

### Section B: Comparing fractions

Convert these fractions so they have the same denominator, then circle the largest.

1

$$\frac{3}{4} \quad \frac{9}{16}$$

2

$$\frac{7}{12} \quad \frac{2}{3}$$

3

$$\frac{11}{20} \quad \frac{21}{50}$$

4

$$\frac{11}{30} \quad \frac{7}{20} \quad \frac{23}{60}$$

### Section C: Adding and subtracting fractions

Convert these fractions so they have the same denominator in order to do the calculation

1

$$\frac{1}{4} + \frac{7}{16}$$

2

$$\frac{7}{12} - \frac{1}{3}$$

3

$$\frac{17}{20} - \frac{1}{50}$$

4

$$\frac{11}{30} + \frac{7}{20} + \frac{23}{60}$$

## Using Common Denominators SOLUTIONS

### Section A: Equivalent fractions

Convert each of the fractions to an equivalent fraction with the denominator shown.

1

$$\frac{14}{15} = \frac{28}{30}$$

2

$$\frac{5}{12} = \frac{15}{36}$$

3

$$\frac{11}{20} = \frac{55}{100}$$

4

$$\frac{8}{9} = \frac{40}{45}$$

### Section B: Comparing fractions

Convert these fractions so they have the same denominator, then circle the largest.

1

$$\left(\frac{3}{4}\right) \quad \frac{9}{16}$$

$$\left(\frac{12}{16}\right) \quad \frac{9}{16}$$

2

$$\frac{7}{12} \quad \left(\frac{2}{3}\right)$$

$$\frac{7}{12} \quad \left(\frac{8}{12}\right)$$

3

$$\left(\frac{11}{20}\right) \quad \frac{21}{50}$$

$$\left(\frac{55}{100}\right) \quad \frac{42}{100}$$

4

$$\frac{11}{30} \quad \frac{7}{20} \quad \left(\frac{23}{60}\right)$$

$$\frac{22}{60} \quad \frac{21}{60} \quad \left(\frac{23}{60}\right)$$

### Section C: Adding and subtracting fractions

Convert these fractions so they have the same denominator in order to do the calculation

1

$$\frac{1}{4} + \frac{7}{16}$$
$$= \frac{4}{16} + \frac{7}{16} = \frac{11}{16}$$

2

$$\frac{7}{12} - \frac{1}{3}$$
$$= \frac{7}{12} - \frac{4}{12} = \frac{3}{12} = \frac{1}{4}$$

3

$$\frac{17}{20} - \frac{1}{50}$$
$$= \frac{85}{100} - \frac{2}{100} = \frac{83}{100}$$

4

$$\frac{11}{30} + \frac{7}{20} + \frac{23}{60}$$
$$= \frac{22}{60} + \frac{21}{60} + \frac{23}{60} = \frac{66}{60} = \frac{11}{10}$$