

## Reasoning and Problem Solving

### Equivalent Fractions 1

#### Developing

- 1a. Zaina is not correct because  $\frac{1}{5}$  is equivalent to  $\frac{2}{10}$ , not  $\frac{2}{8}$ .
- 2a. A, C and D are equivalent because they represent  $\frac{1}{2}$ . B is not equivalent because it represents  $\frac{2}{3}$ .
- 3a.  $\frac{6}{8} = \frac{3}{4}$ ;  $\frac{2}{8} = \frac{1}{4}$

#### Expected

- 4a. Noah is not correct because  $\frac{3}{4}$  is equivalent to  $\frac{9}{12}$ , not  $\frac{10}{12}$ .
- 5a. A, B, C and D are equivalent because they represent  $\frac{3}{5}$ . E is not equivalent because it represents  $\frac{3}{8}$ .
- 6a. Various answers, for example:  
 $\frac{12}{18} = \frac{6}{9} = \frac{2}{3}$

#### Greater Depth

- 7a. Freya is not correct because  $\frac{2}{6}$  is equivalent to  $\frac{5}{15}$ , not  $\frac{6}{15}$ .
- 8a. A and E represent  $\frac{3}{4}$ ; B and D represent  $\frac{2}{3}$ . C is not equivalent to any option.
- 9a. Various answers, for example:  
 $\frac{1}{4} = \frac{6}{24} = \frac{3}{12}$

## Reasoning and Problem Solving

### Equivalent Fractions 1

#### Developing

- 1b. Hollie is correct because  $\frac{3}{4}$  is equivalent to  $\frac{6}{8}$ .
- 2b. A, B and C are equivalent because they represent  $\frac{1}{3}$ . D is not equivalent because it represents  $\frac{3}{5}$ .
- 3b.  $\frac{8}{14} = \frac{4}{7}$ ;  $\frac{6}{14} = \frac{3}{7}$

#### Expected

- 4b. Charlie is not correct because  $\frac{2}{3}$  is equivalent to  $\frac{12}{18}$ , not  $\frac{11}{18}$ .
- 5b. A, B, D and E are equivalent because they represent  $\frac{1}{3}$ . C is not equivalent because it represents  $\frac{1}{4}$ .
- 6b. Various answers, for example:  
 $\frac{24}{28} = \frac{6}{7} = \frac{12}{14}$

#### Greater Depth

- 7b. Abdul is not correct because 18 cannot be divided into quarters so  $\frac{3}{4}$  will not have an equivalent fraction in eighteenths.
- 8a. False. A and C represent  $\frac{2}{5}$ ; B and E represent  $\frac{2}{3}$ . D is not equivalent to any option.
- 9a. Various answers, for example:  
 $\frac{1}{7} = \frac{3}{21} = \frac{2}{14}$