

## Lesson 1: Fractions and division

Challenge 1

- |     |      |
|-----|------|
| a 4 | e 13 |
| b 2 | f 12 |
| c 5 | g 6  |
| d 8 |      |

Challenge 2

- |     |                  |                    |
|-----|------------------|--------------------|
| 1 a | $14 \div 2 = 7$  | Half of 14 = 7     |
| b   | $18 \div 2 = 9$  | Half of 18 = 9     |
| c   | $24 \div 2 = 12$ | Half of 24 = 12    |
| d   | $28 \div 2 = 14$ | Half of 28 = 14    |
| e   | $34 \div 2 = 17$ | Half of 34 = 17    |
| f   | $36 \div 2 = 18$ | Half of 36 = 18    |
| g   | $40 \div 2 = 20$ | Half of 40 = 20    |
| h   | $46 \div 2 = 23$ | Half of 46 = 23    |
| i   | $42 \div 2 = 21$ | Half of 42 = 21    |
| j   | $54 \div 2 = 27$ | Half of 54 = 27    |
| 2 a | $12 \div 4 = 3$  | Quarter of 12 = 3  |
| b   | $20 \div 4 = 5$  | Quarter of 20 = 5  |
| c   | $24 \div 4 = 6$  | Quarter of 24 = 6  |
| d   | $32 \div 4 = 8$  | Quarter of 32 = 8  |
| e   | $40 \div 4 = 10$ | Quarter of 40 = 10 |
| f   | $48 \div 4 = 12$ | Quarter of 48 = 12 |
| 3 a | $18 \div 3 = 6$  | Third of 18 = 6    |
| b   | $27 \div 3 = 9$  | Third of 27 = 9    |
| c   | $36 \div 3 = 12$ | Third of 36 = 12   |
| d   | $21 \div 3 = 7$  | Third of 21 = 7    |
| e   | $42 \div 3 = 14$ | Third of 42 = 14   |
| f   | $48 \div 3 = 16$ | Third of 48 = 16   |

- 4 Answers will vary.

## Lesson 2: Fraction snakes

Challenge 1

- |     |                                 |   |                                 |
|-----|---------------------------------|---|---------------------------------|
| 1 a | $\frac{1}{5}$ and $\frac{4}{5}$ | d | $\frac{4}{5}$ and $\frac{1}{5}$ |
| b   | $\frac{2}{5}$ and $\frac{3}{5}$ | e | $\frac{1}{6}$ and $\frac{5}{6}$ |
| c   | $\frac{3}{5}$ and $\frac{2}{5}$ | f | $\frac{2}{6}$ and $\frac{4}{6}$ |

- 2 Answers will vary.

Challenge 2

- |     |                                 |   |                                 |
|-----|---------------------------------|---|---------------------------------|
| 1 a | $\frac{1}{8}$ and $\frac{7}{8}$ | f | $\frac{6}{8}$ and $\frac{2}{8}$ |
| b   | $\frac{2}{8}$ and $\frac{6}{8}$ | g | $\frac{7}{8}$ and $\frac{1}{8}$ |
| c   | $\frac{3}{8}$ and $\frac{5}{8}$ | h | $\frac{3}{9}$ and $\frac{6}{9}$ |
| d   | $\frac{4}{8}$ and $\frac{4}{8}$ | i | $\frac{5}{9}$ and $\frac{4}{9}$ |
| e   | $\frac{5}{8}$ and $\frac{3}{8}$ |   |                                 |

- 2 Answers will vary.