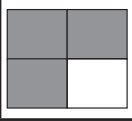
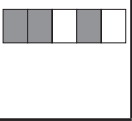
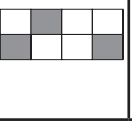
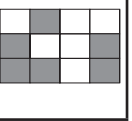


Pages 4–5

- a) 2 parts, $\frac{1}{2}$ b) 6 parts, $\frac{1}{6}$
 c) 3 parts, $\frac{1}{3}$ d) 5 parts, $\frac{1}{5}$
- a) $\frac{1}{3}$ shaded b) $\frac{1}{6}$ shaded
 c) $\frac{1}{5}$ shaded d) $\frac{1}{8}$ shaded
- a) $\frac{2}{3}$ shaded b) $\frac{3}{8}$ shaded
 c) $\frac{5}{6}$ shaded d) $\frac{5}{9}$ shaded

4.

			
4	5	8	12
$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{8}$	$\frac{1}{12}$
$\frac{3}{4}$	$\frac{3}{5}$	$\frac{3}{8}$	$\frac{6}{12}$
$\frac{1}{4}$	$\frac{2}{5}$	$\frac{5}{8}$	$\frac{6}{12}$

Pages 6–7

- a–d) Each shape with 1 square shaded
- a) 2 squares shaded
 b) 3 circles shaded
 c) 4 triangles shaded
 d) 5 petals shaded
- a) Any 3 squares red
 b) Any 5 squares blue
 c) $\frac{2}{10}$ (or $\frac{1}{5}$)
- a) 6 squares green, 3 squares blue and 1 square red
 b) $\frac{2}{12}$ (or $\frac{1}{6}$) (2 squares)
 c) It is half the shape
- a) 4 squares blue b) 2 squares red
 c) 2 squares d) $\frac{2}{8}$ or $\frac{1}{4}$

Pages 8–9

- a) $\frac{2}{3}$ b) $\frac{3}{5}$
- $\frac{2}{9}, \frac{4}{9}, \frac{5}{9}, \frac{8}{9}$
- $\frac{5}{6}$
- a) $\frac{3}{8}$ b) $\frac{5}{8}$
 c) $\frac{6}{8}$ d) $\frac{8}{8}$ or 1
- a) $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}, \frac{4}{10}, \frac{6}{10}, \frac{7}{10}, \frac{8}{10}, \frac{9}{10}$
 b) $\frac{2}{4}$ (or $\frac{1}{2}$), $1\frac{1}{4}$, $1\frac{3}{4}$
- a) $\frac{1}{7}$ b) $\frac{3}{7}$ c) $\frac{5}{7}$ d) $\frac{6}{7}$

Pages 10–11

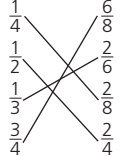
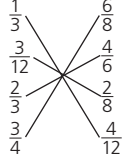
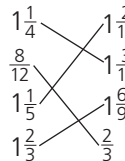
- A, D
- A, D
- $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}$
- B, D

- a) $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \frac{5}{10}, \frac{6}{12}$ b) $\frac{2}{6}, \frac{4}{12}$
 c) $\frac{2}{8}, \frac{3}{12}$ d) $\frac{4}{6}, \frac{8}{12}$
 e) $\frac{6}{8}, \frac{9}{12}$

Pages 12–13

- a) 2 squares shaded
 b) 4 squares shaded
 c) 3 squares shaded
 d) 1 square shaded
 e) 3 squares shaded
- a) $\frac{2}{4} = \frac{1}{2}$ b) $\frac{2}{6} = \frac{1}{3}$ c) $\frac{3}{9} = \frac{1}{3}$
 d) $\frac{3}{12} = \frac{1}{4}$ e) $\frac{3}{6} = \frac{1}{2}$
- B, D, E
- a) 1 square shaded
 b) 2 squares shaded
 c) 3 squares shaded
 d) 2 squares shaded
- a) 6 squares shaded
 b) 6 squares shaded
 c) 2 squares shaded
 d) 4 squares shaded
- A and B ($= \frac{1}{3}$)
C and D ($= \frac{1}{2}$)

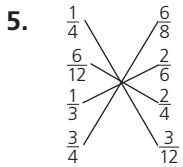
Pages 14–15

- 
- 
- $\frac{1}{4}, \frac{2}{8}$
- Peter
- $\frac{4}{10}$
- 

Page 16

- B, D
- a) $\frac{1}{4}$ b) $\frac{2}{8}$ or $\frac{1}{4}$
 c) $\frac{1}{6}$ d) $\frac{3}{9}$ or $\frac{1}{3}$
 e) $\frac{1}{3}$

3. $\frac{3}{5}, \frac{1}{5}, \frac{2}{5}$
 4. a) 1 squared shaded
 b) 2 squares shaded
 c) 3 squares shaded
 d) 4 squares shaded



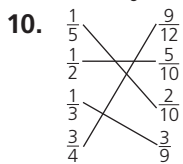
6. Krishnan $\frac{3}{6}$ or $\frac{1}{2}$, Joel $\frac{2}{3}$

7. $A = \frac{1}{4}, B = \frac{3}{4}$

8. a) $\frac{1}{10}$ b) $\frac{1}{8}$
 c) $\frac{1}{5}$ d) $\frac{1}{6}$
 e) $\frac{1}{4}$
 9. a) $\frac{1}{6}$ b) $\frac{2}{9}$
 c) $\frac{5}{12}$ d) $\frac{1}{4}$
 e) $\frac{4}{9}$
 10. A, C, E

Page 17

1. Numerators (numbers above line) all circled:
 1, 4, 2, 5
 2. $\frac{2}{8} = \frac{3}{12} = \frac{4}{16}$, etc.
 3. a) $\frac{1}{8}$ b) $\frac{3}{8}$
 c) $\frac{6}{8}$ d) $\frac{7}{8}$
 4. 3 squares shaded
 5. Any fraction where the numerator is greater than half of the denominator
 6. a, c, e
 7. 6 squares shaded
 8. $\frac{1}{3} = \frac{2}{6}$
 9. a) $\frac{1}{6}$ b) $\frac{3}{6}$ (or $\frac{1}{3}$)
 c) $\frac{5}{6}$



Pages 18–19

1. a) $\frac{1}{2}$ b) $\frac{1}{2}$
 c) $\frac{1}{3}$ d) $\frac{1}{4}$
 2. a) $\frac{1}{4}$ is less than $\frac{1}{3}$
 b) is greater than
 c) is less than
 d) is less than
 e) is less than

3. a) $1\frac{1}{2} > 1\frac{1}{3}$ b) $1\frac{1}{7} > 1\frac{1}{10}$
 c) $3\frac{1}{6} < 3\frac{1}{4}$ d) $2\frac{1}{3} > 2\frac{1}{8}$
 e) $1\frac{1}{5} < 1\frac{1}{4}$
 4. Nina

Pages 20–21

1. $\frac{1}{6}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
 2. Uma, Ryan, Amy
 3. $\frac{1}{8}, \frac{1}{7}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
 4. C, B, E, A, D
 5. $\frac{1}{10}, \frac{1}{9}, \frac{1}{6}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$
 6. a) $\frac{1}{8}$ b) $\frac{1}{10}$ c) $\frac{1}{12}$
 7. a) Zoe b) Molly

Pages 22–23

1. a) A $\frac{4}{5}$ B $\frac{7}{8}$ C $\frac{6}{6}$
 b) A $\frac{1}{5}$ B $\frac{1}{8}$ C $\frac{2}{6}$
 2. a) $\frac{1}{4}$ is less than $\frac{3}{4}$
 b) $\frac{2}{5}$ is less than $\frac{3}{4}$
 c) $\frac{6}{9}$ is greater than $\frac{2}{9}$
 d) $\frac{4}{6}$ is less than $\frac{6}{6}$
 e) $\frac{7}{8}$ is greater than $\frac{5}{8}$
 3. a) $1\frac{1}{3} < 1\frac{2}{3}$ b) $2\frac{1}{4} < 2\frac{3}{4}$
 c) $1\frac{2}{5} < 1\frac{4}{5}$ d) $2\frac{4}{6} > 2\frac{1}{6}$
 4. Jan

Pages 24–25

1. D, B, A, C
 2. a) $\frac{1}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}$ b) $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$
 c) $\frac{1}{5}, \frac{2}{5}, \frac{4}{5}, \frac{5}{5}$
 3. $\frac{3}{6}, \frac{4}{6}, \frac{5}{6}$ (C, A, F)
 4. a) $1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}$
 b) $2\frac{3}{8}, 2\frac{5}{8}, 2\frac{7}{8}$
 c) $1\frac{1}{9}, 1\frac{6}{9}, 2\frac{4}{9}$

Page 26

1. C, A, D, B
 2. a) $\frac{6}{8}$ b) $\frac{5}{5}$ c) $\frac{5}{6}$
 3. Lea
 4. $\frac{1}{6}$
 5. $\frac{2}{21}, \frac{3}{21}, \frac{5}{21}, \frac{7}{21}, \frac{18}{21}$
 6. a) $\frac{1}{3}$ b) $\frac{1}{5}$ c) $\frac{1}{3}$
 7. C, A, D, B
 8. $\frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}, \frac{5}{5}$
 9. Mick
 10. a) $\frac{1}{3} > \frac{1}{4}$ b) $\frac{3}{8} > \frac{1}{8}$
 c) $\frac{1}{2} = \frac{2}{4}$ d) $\frac{1}{5} < \frac{1}{4}$

Page 27

1. a) $\frac{4}{7}$ b) $\frac{8}{9}$
 c) $\frac{8}{12}$
2. D, C, A, B
3. a) $\frac{2}{10} = \frac{1}{5}$ b) $\frac{2}{3} > \frac{3}{6}$
 c) $\frac{5}{8} > \frac{1}{2}$
4. $\frac{1}{16}$ $\frac{1}{12}$ $\frac{1}{9}$ $\frac{1}{8}$ $\frac{1}{6}$
5. Max
6. $\frac{5}{8}$
7. $\frac{5}{25}$, $\frac{10}{25}$, $\frac{15}{25}$, $\frac{20}{25}$
8. a) $\frac{1}{8}$ b) $\frac{1}{9}$
 c) $\frac{1}{10}$
9. D, B, A, C
10. a) No b) Yes
 c) No d) No

Pages 28–29

1. a) 2 squares shaded
 b) 2 squares shaded
 c) 2 squares shaded
2. a) 3 squares shaded ($\frac{1}{6} + \frac{2}{6}$ or $\frac{1}{3} = \frac{3}{6}$ or $\frac{1}{2}$)
 b) 5 squares shaded ($\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$)
 c) 4 squares shaded ($\frac{1}{4} + \frac{3}{4} = \frac{4}{4}$ or 1)
3. a) $\frac{4}{5}$ b) $\frac{5}{6}$
 c) $\frac{8}{8}$ or 1
4. $\frac{4}{4}$ or 1

Pages 30–31

1. a) 1 square shaded ($\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$ or $\frac{1}{2}$)
 b) 2 squares shaded ($\frac{5}{6} - \frac{3}{6} = \frac{2}{6}$ or $\frac{1}{3}$)
 c) 1 square shaded ($\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$)
2. a) 1 segment shaded
 b) 2 segments shaded
 c) 3 segments shaded
3. a) 4 squares shaded
 b) 2 squares shaded
 c) 1 square shaded
4. $\frac{3}{8}$
5. a) $\frac{3}{7}$ b) $\frac{4}{8}$ or $\frac{1}{2}$
 c) $\frac{2}{9}$
6. $\frac{1}{6}$

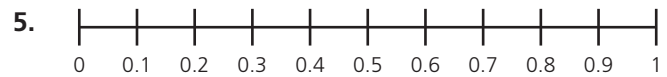
Pages 32–33

1. a) 3/3 b) 5/5 c) 6/6 d) 8/8
2. 9 beads
3. a) 3 b) 2 c) 4

4. a) 3 b) 5 c) 4
5. 6 brown, 12 black, 4 white, 2 speckled

Pages 34–35

1. a) 0.3 b) 0.7
 c) 0.5
2. a) $\frac{6}{10}$ b) $\frac{2}{10}$
 c) $\frac{8}{10}$
3. a) 0.2 b) 0.5
 c) 0.7
4. a) 0.1 b) 0.9
 c) 0.4



6. a) $\frac{7}{10}$ b) $\frac{3}{10}$
 c) $\frac{9}{10}$
7. 0.5

Pages 36–37

1. a) 0.7 b) 2.4
 c) 13.5
2. a) 2 tenths b) 7 tenths
 c) 3 tenths
3. a) 0.6 b) 0.5
 c) 0.9
4. 0.3 m
5. a) 2.4 b) 3.6
 c) 4.5 d) 2.8
6. 0.2 litres

Page 38

1. a) $\frac{3}{5}$ b) $\frac{6}{7}$
 c) $\frac{7}{9}$
2. a) $\frac{2}{10}$ b) $\frac{4}{10}$
 c) $\frac{7}{10}$ d) $\frac{9}{10}$
3. a) 0.7 b) 0.2
 c) 0.4
4. a) 6 b) 10
 c) 7
5. a) $\frac{2}{7}$ b) $\frac{4}{8}$
 c) $\frac{4}{9}$
6. a) 4 b) 6
 c) 8
7. a) 0.7 b) 10
 c) 9
8. a) $\frac{4}{10}$, $\frac{3}{10}$, $\frac{2}{10}$ b) 0.5, 0.6, 0.7
 c) $\frac{7}{10}$, $\frac{8}{10}$, $\frac{9}{10}$

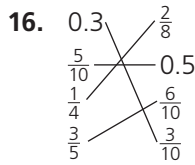
9. a) 3 b) 2 c) 4
10. a) $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$
 b) $\frac{5}{7} - \frac{3}{7} = \frac{2}{7}$
 c) $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

Page 39

1. a) $\frac{3}{5}$ b) $\frac{6}{7}$ c) $\frac{7}{9}$
2. a) 3 b) 6 c) 5
3. a) 0.1 b) 0.3 d) 0.7
 c) 0.6 d) 0.7
4. a) 0.9 b) 0.5 c) 0.3
5. a) $\frac{4}{5}$ b) $\frac{6}{8}$ c) $\frac{8}{9}$
6. a) 2 b) 3 c) 5
7. a) $\frac{3}{9}$ b) $\frac{5}{10}$ c) $\frac{1}{12}$
8. a) 0.9 b) 10 c) 2
9. a) $\frac{8}{10}, \frac{7}{10}, \frac{6}{10}$ b) 0.5, 0.7, 0.8
 c) $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}$
10. a) $\frac{6}{10} + \frac{2}{10} = \frac{8}{10}$
 b) $\frac{8}{12} - \frac{3}{12} = \frac{5}{12}$
 c) $\frac{6}{15} + \frac{7}{15} = \frac{13}{15}$

Pages 40–41

1. a) $\frac{2}{6}$ or $\frac{1}{3}$ b) $\frac{5}{10}$ or $\frac{1}{2}$
 c) $\frac{3}{8}$ d) $\frac{6}{8}$ or $\frac{3}{4}$
2. $\frac{3}{4}$ or $\frac{4}{4}$
3. $\frac{5}{6}$
4. a) 6 beads b) 18 beads
5. a) $\frac{1}{3}$ b) $\frac{1}{4}$
 c) $\frac{1}{2}$
6. 3 brown, 6 spotted, 3 white
7. 6m
8. a) $\frac{1}{7}$ b) $\frac{3}{7}$
 c) $\frac{5}{7}$ d) $\frac{6}{7}$
9. a) $\frac{1}{4} > \frac{1}{8}$ b) $\frac{1}{2} = \frac{4}{8}$
 c) $\frac{3}{10} < \frac{7}{10}$
10. 10 pieces
11. $\frac{3}{6}$
12. 0.9 km
13. $\frac{2}{8}, \frac{3}{12}$
14. a) 4 kg b) 0.8 kg
 c) 2 kg
15. a) $\frac{1}{4}$ b) $\frac{3}{4}$
 c) $1\frac{1}{4}$ d) $1\frac{2}{4}$ or $1\frac{1}{2}$



16. 0.2, $\frac{3}{10}$, 0.5, 0.7, $\frac{9}{10}$
17. $\frac{7}{8}$
18. a) $\frac{10}{20}$ or $\frac{1}{2}$ b) $\frac{5}{20}$ or $\frac{1}{4}$
 c) 5 d) $\frac{5}{20}$ or $\frac{1}{4}$
19. a) $\frac{2}{10} = 0.2$ b) 0.7
 c) 0.9 d) 0.3

Pages 42–43

1. a) $\frac{1}{6}$ b) $\frac{1}{10}$
 c) $\frac{1}{8}$ d) $\frac{1}{7}$
2. a) 0.2 b) 0.4
 c) 0.7 d) 0.9
3. $\frac{1}{12}, \frac{1}{10}, \frac{1}{7}, \frac{1}{5}, \frac{1}{4}$
4. $\frac{2}{3} = \frac{4}{6}, \frac{1}{4} = \frac{3}{12}, \frac{1}{2} = \frac{5}{10}$
5. a) $\frac{1}{2}$ b) $\frac{1}{4}$
 c) $\frac{1}{6}$
6. a) $\frac{3}{8} - \frac{2}{8} = \frac{1}{8}$ b) $\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$
 c) $\frac{7}{10} - \frac{5}{10} = \frac{2}{10}$
7. 4
8. 0.6 metres
9. 0.7, 0.8, 0.9
10. $\frac{1}{7}, \frac{2}{7}, \frac{3}{7}, \frac{4}{7}, \frac{5}{7}$
11. a) $\frac{1}{4}$ b) $\frac{1}{7}$
 c) $\frac{1}{3}$ d) $\frac{1}{5}$
12. a) $\frac{1}{10}$ b) $\frac{3}{10}$
 c) $\frac{6}{10}$ d) $\frac{8}{10}$
13. 0.2, 0.4, 0.5, 0.7, 0.9
14. 0.5 0.6
 $\frac{3}{4}$ $\frac{1}{3}$
 $\frac{6}{10}$ $\frac{6}{12}$
 $\frac{4}{12}$ $\frac{9}{12}$
15. a) $\frac{1}{8} < \frac{1}{5}$ b) $\frac{1}{3} > \frac{1}{6}$
 c) $\frac{1}{9} < \frac{1}{7}$
16. a) $\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$ b) $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$
 c) $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$
17. $\frac{7}{10}, \frac{8}{10}, \frac{9}{10}$
18. 5
19. a) $\frac{8}{9} - \frac{5}{9} = \frac{3}{9}$ b) $\frac{6}{7} - \frac{5}{7} = \frac{1}{7}$
 c) $\frac{8}{12} - \frac{5}{12} = \frac{3}{12}$
20. 0.6, 0.5, 0.4