

- b (i) 2 (ii) 6 (iii) 12 (iv) 20  
c (i) 30 (ii) 42 (iii) 56 (iv) 72

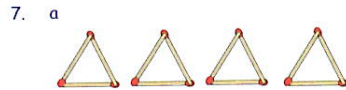
6. a Q b R c B  
d u e D f D



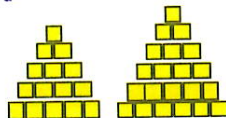
10. See pupils' designs and display

### Chapter 15 - Exercise 2 (page 155)

- the 3 times table starting at 6
- the 4 times table starting at 4
  - the 6 times table starting at 6
  - the 5 times table starting at 15
  - the 10 times table starting at 30
  - the 9 times table starting at 18
  - the 8 times table starting at 56 → down
- 24, 28, 32 b 36, 42, 48
  - 40, 45, 50 d 80, 90, 100
  - 54, 63, 72 f 16, 8, 0
- begin at 8 and go up 3 each time
- begin at 5 and go up 2 each time
  - begin at 4 and go up 3 each time
  - begin at 8 and go up 4 each time
  - begin at 7 and go up 10 each time
  - begin at 83 and go up 5 each time
  - begin at 2 and go up 0.5 each time
  - begin at 14 and go up 1 each time
  - begin at 52 and go down 4 each time
  - begin at 64 and go down 9 each time
  - begin at 3700 and go down 100 each time
- 15, 17, 19 b 19, 22, 25
  - 28, 32, 36 d 57, 67, 77
  - 108, 113, 118 f 4.5, 5.0, 5.5
  - 21, 22, 23 h 36, 32, 28
  - 28, 19, 10 i 3300, 3200, 3100



- b 3, 6, 9, 12, 15, 18, 21  
c start with 3 matches and add 3 matches  
d 30
8. a 24 b 6, 12, 18, 24, 30, 36  
c start with 6 cherries and add 6 cherries  
d 54  
e (i) 18 (ii) 27, (iii) 54 (iv) 90
9. a 8 b 13 c 21  
d ...21, 34, 55, 89, 144, ...
10. a 18, 29, 47, 76, 123, 199,  
b 12, 19, 31, 50, 81, 131, 212
11. various
12. a possibly going up by 5 then 7 then 9 ...  
b  $24 = 4 \times 6$ ,  $35 = 5 \times 7$ ,  $48 = 6 \times 8$   
c  $7 \times 9 = 63$  d 63, 80, 99, 120, ...
13. a



- b  $15 = 1 + 2 + 3 + 4 + 5$   
c  $21 = 1 + 2 + 3 + 4 + 5 + 6$   
 $28 = 1 + 2 + 3 + 4 + 5 + 6 + 7$   
 $55 = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$

### Chapter 15 - Exercise 3 (page 158)

1. a
- 
- b 36 c 49 d 100 e 400
2. 64, 49, 81, 100, 400, 900
3. 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400
4. 21
- 
5. 1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91  
105, 120, 136, 153, 171, 190, 210

### Answers to CHAPTER 16 (page 160)

#### Chapter 16 - Exercise 1 (page 160)

- cube b sphere
  - triangular prism d cylinder
  - square pyramid f cuboid
  - cone h hemisphere
- hemisphere and cone
  - cuboid and triangular prism
  - hemisphere and cylinder
  - cone and cylinder
  - cube and square based pyramid
  - cuboid, cube and square based pyramid
- triangular prism
  - square based pyramid
  - cylinder d cuboid
  - square pyramid f cone
- 6 b square c 8 d 12
  - horizontal f (i) RT (ii) VU
  - AN, RV, UT
  - (i) BT, EU, NV (ii) vertical

- i various
5. a 6 b rectangle c 8  
d 12 e GR, MN, QD f RF, DN, QM  
g GQ, RD, FN, EM h various
6. a 5 b 1 square and 4 triangles  
c 5 d 8 e various
7. a 5 b 2 triangles and 3 rectangles  
c 6 d TD e BD, AT  
f 9 g various
8. a a cone has 1 curved surface and 1 flat circular surface  
b a cylinder has 1 curved surface and 2 flat circular surfaces
9. hemisphere
10. 1 cone and 2 cylinders  
b 1 cube, 1 cylinder, 3 (or 4) spheres and 1 hemisphere

### Chapter 16 - Exercise 2 (page 164)

- cone b cylinder
  - triangular prism d sphere
  - square pyramid f cube
  - sphere h cuboid
- a-e various

### Chapter 16 - Exercise 3 (page 165)

- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- 2 by 3 by 3
- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- see pupils' drawings
- various
- see pupils' drawings
  - see pupils' drawings

### Answers to CHAPTER 17 (page 168)

#### Chapter 17 - Exercise 1 (page 168)

- 0, 5, 10, 15, 20, 25, 30, 35,
- 0, 8, 16, 24, 32
- 4, 8, 12, 16, 20, 24, 28, 32, 36, 40
- a t b t c f d t
  - e f f t g f h t
- 24, 27, 30, 33, 36
  - 20, 25, 30, 35, 40, 45, 50, 55, 60, 65
  - 30, 36, 42, 48 d 45, 54, 63, 72, 81
- 3, 6, 9, 12, 15, 18, 21, 24, 27, 30
  - 4, 8, 12, 16, 20, 24, 28, 32, 36, 40
  - 12, 24 d 12
- 5, 10, 15, 20, 25, 30, 35, 40, 45, 50
  - 6, 12, 18, 24, 30, 36, 42, 48, 54, 60
  - 30 d 30
- 24 b 20 c 14 d 40
  - e 15 f 90 g 60 h 9
- 12 b 20 c 12 d 24
  - e 8 f 72 g 60 h 210

#### Chapter 17 - Exercise 2 (page 169)

- 1 and 5
- 1, 2, 4, 8
- 1, 11 b 1, 2, 7, 14
  - 1, 2, 5, 10 d 1, 2, 4, 8, 16
  - 1, 2, 3, 6, 9, 18 f 1, 2, 3, 5, 6, 10, 15, 30
- 1, 2, 3, 6 b 1, 3, 5, 15
  - 1, 2, 3, 4, 6, 8, 12, 24
  - 1, 2, 3, 4, 6, 9, 12, 18, 36
- a t b f c t d t
  - e t f t g f f f