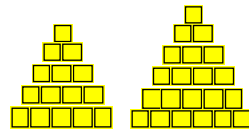


- c
-
2. a/b
-
3. a/b
-
- 4.
-
5. a
-
- b (i) 2 (ii) 6 (iii) 12 (iv) 20
c (i) 30 (ii) 42 (iii) 56 (iv) 72
6. a Q b R c B
d u e D f D
- 7.
-
- 8.
-
- 9.
-
10. See pupils' designs and display

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
 - 36, 42, 48
 - 40, 45, 50
 - 80, 90, 100
 - 54, 63, 72
 - 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
 - 19, 22, 25
 - 28, 32, 36
 - 57, 67, 77
 - 108, 113, 118
 - 4.5, 5.0, 5.5
 - 21, 22, 23
 - 36, 32, 28
 - 28, 19, 10
 - 3300, 3200, 3100

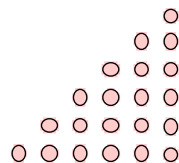
7. a
-
- b 3, 6, 9, 12, 15, 18, 21
c start with 3 matches and add 3 matches
d 30
8. a 24 b 6, 12, 18, 24, 30, 36
c start with 6 cherries and add 6 cherries
d 54
- e (i) 18 (ii) 27, (iii) 54 (iv) 90
9. a 8 b 13 c 21
d ...21, 34, 55, 89, 144, ...
10. a 18, 29, 47, 76, 123, 199,
b 12, 19, 31, 50, 81, 131, 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)

- -
 -
 -
 -
 -
 -
 -
- 36 c 49 d 100 e 400
- 64, 49, 81, 100, 400, 900
- 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400
- 21



- 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
 - sphere
 - triangular prism
 - cylinder
 - square pyramid
 - cuboid
 - cone
 - 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
 - cuboid
 - square pyramid
 - cone
- 6
 - square
 - 8
 - 12
 - horizontal
 - (i) RT (ii) VU
 - AN, RV, UT
 - (i) BT, EU, NV (ii) vertical

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

Chapter 16 - Exercise 2 (page 164)

- cone
 - cylinder
 - triangular prism
 - sphere
 - square pyramid
 - cube
 - sphere
 - 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
- t
 - t
 - f
 - t
 - f
 - f
 - t
 - f
 - h
 - t
- 24, 27, 30, 33, 36
 - 20, 25, 30, 35, 40, 45, 50, 55, 60, 65
 - 30, 36, 42, 48
 - 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
 - 12
- 5, 10, 15, 20, 25, 30, 35, 40, 45, 50
 - 6, 12, 18, 24, 30, 36, 42, 48, 54, 60
 - 30
 - 30
- 24
 - 20
 - 14
 - 40
 - 15
 - 90
 - 60
 - 9
- 12
 - 20
 - 12
 - 24
 - 8
 - 72
 - 60
 - 210

Chapter 17 - Exercise 2 (page 169)

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