16. £5·18
17. £15·60
18. 7 white and 3 red
19. a £260 b 8p c £5·12
    d £22 517 998 140 000 !!!!
    e Person obviously stopped paying.

Answers to CHAPTER 9 (page 80)

Chapter 9 - Exercise 1 (page 80)

1. a pentagon   b kite
   c triangle   d rhombus
   e circle   f parallelogram
   g square   h rectangle
2. a/b pentagon   c 5   d 5
3. a 6   b/c hexagon
4. pentagon, hexagon, heptagon, octagon, nonagon, decagon
5. a 5 squares   b square and circle
   c 4 hexagons
   d rectangle and 2 squares
   e pentagon and 2 squares
   f octagon and 8 squares
   g rectangle and 4 triangles
   h hexagon - 6 green and 6 yellow triangles
   i square and 4 triangles
6. a/b see pupils' drawings and display

Chapter 9 - Exercise 2 (page 82)

1. a/b scalene   2. a/b isosceles
3. a/b equilateral
4. a isosceles   b equilateral
   c isosceles   d scalene
   e equilateral f isosceles
   g scalene   h isosceles

Chapter 9 - Exercise 3 (page 83)

1. a obtuse   b right
   c acute   d acute
   e obtuse   f acute
2. a △KTL b △EFG c △MRQ
   d △DSI e △YVN f △PNZ

Chapter 9 - Exercise 4 (page 84)

1. △LMK is a right angled scalene triangle
2. △NWT is an acute angled isosceles triangle
3. a △MFW ...right angled isosceles ...
   b △RGS ...acute angled scalene ...
   c △PDE ...acute angled equilateral ...
   d △EWM ...obtuse angled scalene ...
   e △TKC ...right angled scalene ...
   f △RVQ ...acute angled isosceles ...

Chapter 9 - Exercise 5 (page 85)

1.
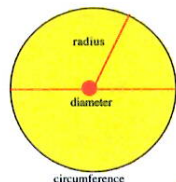
2. 7 cm
3. 50 mm
4. a 7 cm   b 3·5 cm
5. a see pupil's sketch   b 12 cm
6. 48 cm by 16 cm
7. a 4 cm   b 2 cm
8. a 7 cm   b 3·5 cm   c 8·5 cm
9/10/11 see pupils designs

The Answers to Book 2a

Answers to CHAPTER 10 (page 88)

Chapter 10 - Exercise 1 (page 88)

1. a (i) 15 (ii) 60 (iii) 180 (iv) 6·9 (v) 0
   b (i) 3 (ii) 9 (iii) 2000 (iv) 3·2 (v) 7·1
2. a (i) 1 (ii) 4 (iii) 0·5 (iv) 35 (v) 0
   b (i) 25 (ii) 50 (iii) 88 (iv) 10·5 (v) 1010
3. a 17   b 10   c 90   d 25
   e 42   f 8   g 200   k 0·8
4. a 1   b 7   c 17   d 66
5. a 8   b 40   c 9
   d 560   e 0·5   f 40000
6. a 9   b 9   c 10
   d 14   e x7 (+36) f -9
7. a 28
   b (i) 21 (ii) 56 (iii) 0 (iv) 80
   c (i) 21 (ii) 5 (iii) 11 (iv) 101
8. a 7,14,21,28,35,42p b x7 c 105p
9. a 5,10,15,20,25,30 b x5 c 70

Chapter 10 - Exercise 2 (page 91)

1. a 3   b 9   c 6
2. a 14   b 0   c 12
   d 8   e 9   f 12
   g 7   h 0   i 13
   j 31   k 5   l 11
   m 7   n 9   o 5
   p 0   q 32   r 56
   s 7   t 9   u 7
3. a +   b -   c x
   d ÷   e -   f x
   g +   h ÷   i -
4. a 7   b 6   c 7
   d 12   e 17   f 9
5. a Jar A = 7, Jar B = 10, B heavier by 3
6. a 14 cm b 9 cm c 15 cm d 15 cm
7. a 53 + * = 72   b £19
8. a 18 - * = 3,   => ate 15 sweets
   b 7 x * = 119,   => euro weighs 17 grams
   c * ÷ 8 = 9,   => 72 lettuces
   d 1·4 + * = 3·2 => ham weighs 1·8 kg
   e 8 x * = 7·52, => lemonsip costs 94p
   f 72 ÷ * = 6,   => cut into 12 lengths
   g * - 9 = 51,   => Mr Galbraith is 60
9. a 6 x * = 48   b length = 8 cm
10. a 35000 - * = 29500 b dropped by 5500 ft
11. Think of number as *
    => * x 2 = 2* + 10 => then 2* + 10 ÷ 2 = * + 5
    => * + 5 - 5 = * (the number you began with)

Chapter 10 - Exercise 3 (page 94)

1. a 7   b 4   c 15
   d 0   e 10   f 16
   g 16   h 13   i 14
   j 5   k 9   l 7
   m 3   n 8   o 42
   p 64   q 77   r 16
2. a 6   b 16   c 9
   d 36   e 0   f 100
   g 4   h 9   i 7
   j 26   k 6   l 8
3. a $a + 6 = 13, a = 7$ b $b + 7 = 22, b = 15$
   c $2 \times c = 20, c = 10$ d $4 \times d = 36, d = 9$
   e $3 \times e = 120, e = 40$ e $f + 25 = 45, f = 20$
4. $25 + d = 63$, Donald is 38
5. $c \times 4 = 1000$, Cost is £250
6. $8 * t = 56$, there are 7 octopuses
7. $s - 240 = 965$, 1205 grams to begin with
8. $9 \times * = 54$, would take him 6 mins
9. $c + 23 = 51$, theres are 28 chimps
10. $b ÷ 3 = 16$, there were 48 balloons
11. Ahmed is 10, his dad is 30
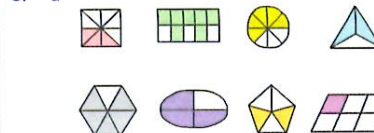
Answers to CHAPTER 11 (page 97)

Chapter 11 - Exercise 1 (page 97)

1. $\frac{1}{4}$ 2. $\frac{1}{3}$

3. a $\frac{1}{5}$ b $\frac{1}{6}$ c $\frac{1}{10}$ d $\frac{1}{8}$
   e $\frac{1}{9}$ f $\frac{1}{16}$ g $\frac{1}{5}$ h $\frac{1}{4}$

Chapter 11 - Exercise 2 (page 98)

1. a $\frac{1}{2}$ b $\frac{7}{8}$ c $\frac{2}{3}$ d $\frac{5}{7}$
   e $\frac{2}{3}$ f $\frac{8}{18}$ g $\frac{3}{4}$ h $\frac{13}{18}$
   i $\frac{3}{4}$ j $\frac{3}{5}$ k $\frac{5}{9}$ l $\frac{3}{4}$
2. a $\frac{1}{2}$ b $\frac{1}{8}$ c $\frac{1}{3}$ d $\frac{2}{7}$
   e $\frac{1}{3}$ f $\frac{10}{18}$ g $\frac{1}{4}$ h $\frac{5}{18}$
   i $\frac{1}{4}$ j $\frac{2}{5}$ k $\frac{4}{9}$ l $\frac{1}{4}$
3. a $\frac{4}{15}$ b $\frac{6}{15}$ c $\frac{1}{15}$ d $\frac{2}{15}$
4. a 5 boxes shaded   b 7 boxes shaded
   c 2 boxes shaded
5. a

Chapter 11 - Exercise 3 (page 100)

1. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{9}{15}$, $\frac{3}{6}$, $\frac{3}{5}$, $\frac{3}{9}$

   a $\frac{1}{2} = \frac{3}{6}$ b $\frac{1}{3} = \frac{3}{9}$ c $\frac{9}{15} = \frac{3}{5}$
2. a $\frac{2}{10}$ b $\frac{3}{15}$ c $\frac{10}{50}$
3. a $\frac{4}{6}$ b $\frac{6}{9}$ c $\frac{8}{12}$, $\frac{10}{15}$, $\frac{12}{18}$, $\frac{14}{21}$
4. a $\frac{2}{4}$ b $\frac{4}{10}$ c $\frac{6}{14}$
   d $\frac{10}{16}$ e $\frac{18}{20}$ f $\frac{22}{30}$
5. a $\frac{3}{6}$ b $\frac{6}{15}$ c $\frac{9}{21}$
   d $\frac{15}{24}$ e $\frac{27}{30}$ f $\frac{33}{45}$
6. various
7 a $\frac{3}{4}$ b $\frac{1}{6}$ c $\frac{5}{7}$
   d $\frac{3}{8}$ e $\frac{9}{10}$ f $\frac{43}{50}$
8. a $\frac{1}{2}$ b $\frac{2}{3}$ c $\frac{3}{4}$
   d $\frac{3}{5}$ e $\frac{6}{7}$ f $\frac{5}{9}$
9. a $\frac{5}{6}$ b $\frac{2}{5}$ c $\frac{1}{3}$ d $\frac{1}{2}$
   e $\frac{2}{5}$ f $\frac{2}{3}$ g $\frac{3}{4}$ h $\frac{2}{3}$