

# Book 3b - Answers to Revisit-Review-Revise Exercises

## Chapter 1 Page 11

1. a  $121 \text{ cm}^2$
2. a  $81 \text{ mm}^2$     b  $900 \text{ cm}^2$     c  $0.25 \text{ m}^2$
3. a 25    b 64    c 100  
d 225    e 10000    f 1600
4. a 8    b 16    c 10000  
d 81    e 1000000    f 1
5. a 7    b 9    c 0  
d 12    e 13    f 50
6. a  $1089 \text{ cm}^2$     b  $6.76 \text{ mm}^2$     c  $7225 \text{ m}^2$
7. a 289    b 26.01    c 9.8596  
d 7776    e 4826809    f 1575.2961
8. a 4.80    b 14.3    c 0.866
9.  $6.48 \text{ m}^2$
10. a 18    b 75    c 60
11. a 10 - 1 2 5 10    b 15 - 1 3 5 15  
c 5
12. a 6    b 10    c 9
13. a 2 3 5 7    b 4 9 16 .....
14. a 420    b 1
15. 2
16. a 23 29    b 53 59  
c 97 101 103 107 109
17. a false    b false    c true
18. a even    b even and  $\div$  by 10 100 etc  
c  $\div 1, \div 3, \div 9$  etc
19. a 1    b always 1
20. a  $15 = 3 \times 5$   
b  $54 = 2 \times 3 \times 3 \times 3$   
c  $75 = 3 \times 5 \times 5$   
d  $256 = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

## Chapter 2 Page 22

1. a 56p    b 59p    c container
2. 31p 29p 32p ..... 8 pack best buy
3. £120 £140 ..... Eurochange better
4. a 1.25 Euro    Going abroad  $\times$  by greater  
b 1.20 Euro    Coming home  $\div$  by lesser
5. \$0.84 to 1 Euro
6. a £365  
b Adv - can afford to purchase sooner  
Disadvantage - usually costs more
7. a T4U £66    HiA £61.50    HiA cheaper  
b T4U £100    HiA £102.50    T4U cheaper
8. Green £103.50    Lawn £107    Green better
9. Yes, Electrogas £8.33 per month cheaper
10. a £38.50    £39.80    £40.50  
b Tangerine cheaper  
c Tangerine £47.50    Dova fone £53  
Tangerine cheaper  
d Various

## Chapter 3 Page 33

1. a (i) 4 8 12 16 20 24 28 32 36 40  
(ii) 5 10 15 20 25 30 35 40 45 50  
b 20

## Chapter 4 Page 45

1. a 45, 38    b 100, 81  
c 42, 56    c 50, 100
2.  $45 + 55 = 100$
3. a 155 g    b  $W = 35L + 15$   
c 715 g
4. a  $D = 3A - 3$     b 30
5. a  $P = h^2$     b  $T = 7m + 5$   
c  $D = 6x - 5$     d  $N = c^2 + 1$

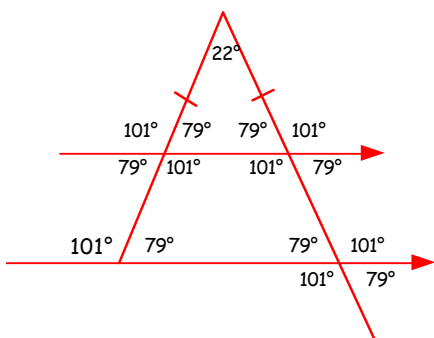
## Chapter 5 Page 54

1. a  $x = 6$     b  $x = 6$     c  $x = 4\frac{1}{2}$   
d  $x = -5\frac{1}{3}$     e  $x = 8$     f  $x = -10$
2. a  $x = 9$     b  $x = 6$     c  $x = 8$   
d  $x = 7$     e  $x = -9$     f  $x = 2\frac{1}{2}$
3. a  $x = 6$     b  $x = 4$     c  $x = 4$   
d  $x = 6$     e  $x = 3$     f  $x = 9$
4. a  $x > 13$     b  $x \geq 9$     c  $x < 7$   
d  $x \leq 7$     e  $x < 5$     f  $x \geq 7$

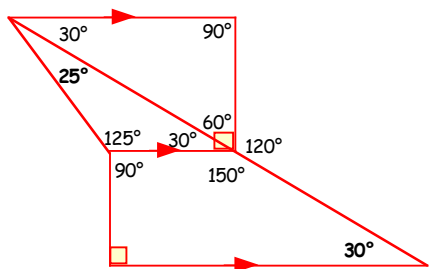
5. a  $x = 14$       b  $x = 20$       c  $x > 15$   
 d  $x = 7$       e  $x \leq 11$       f  $x = 5$
6. a  $\frac{1}{2}(4x + 30) - 11 = 20$       b  $x = 8$
7. a  $6x + 40 = 4x + 190$       b  $x = 75$

### Chapter 6 Page 63

1. a  $56^\circ$       b  $95^\circ$   
 2. a 35      b 40      c 115  
 d 28      e 80      f 63  
 g 36      h 100  
 3. a



b



### Chapter 7 Page 73

1. a rhombus      b hexagon      c nonagon  
 2. Drawing of a rectangle  
 3. a Drawing of a triangle      b 8 cm  
 4. a Drawing of a triangle      b 7.7 cm  
 5. a Drawing of a triangle  
 b  $\angle U = 116^\circ$ ,  $\angle V = 28^\circ$ ,  $\angle W = 36^\circ$ .  
 6. Drawing of a kite  
 7. a Drawing of a trapezium      b 5.1 cm

### Chapter 8 Page 80

1. a  $4\frac{1}{4}$       b  $5\frac{4}{9}$   
 c  $60\frac{1}{2}$       d  $9\frac{4}{7}$
2. a  $\frac{11}{6}$       b  $\frac{58}{7}$   
 c  $\frac{17}{3}$       d  $\frac{106}{9}$

3. 14
4. a  $\frac{8}{15}$       b  $\frac{7}{16}$       c  $\frac{1}{3}$   
 d  $\frac{3}{14}$       e  $10\frac{1}{2}$       f  $4\frac{4}{5}$   
 g  $27\frac{1}{2}$       h 6
5. a 3      b 2      c  $\frac{1}{4}$   
 d  $\frac{3}{4}$       e  $\frac{2}{3}$       f  $2\frac{4}{5}$   
 g  $1\frac{7}{33}$       h  $7\frac{1}{2}$
6. a  $6\frac{4}{5}$  cm<sup>2</sup>      b  $31\frac{1}{2}$       c  $58\frac{5}{8}$  kg
7. a  $37\frac{1}{27}$  cm<sup>3</sup>      b  $\frac{24}{9}$  cm

### Chapter 9 Page 93

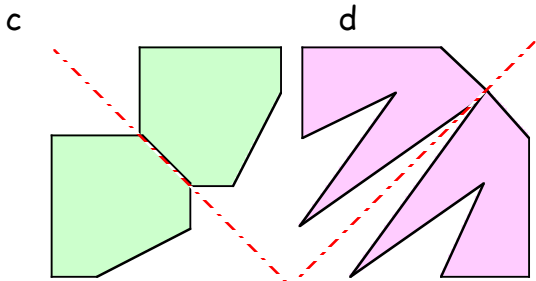
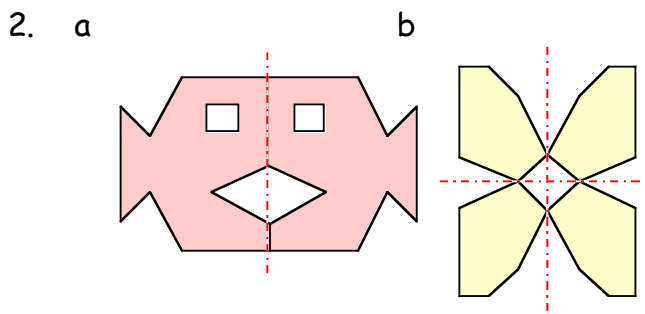
1. a  $225^\circ$       b  $135^\circ$       c  $045^\circ$   
 2. 9 m  
 3. a 5.5 cm      b 5.5 km  
 4. a Drawing      b 110 m  
 5.  $240^\circ$   
 6. a Drawing      b 11.5 cm      c 115 km  
 7. Drawing  
 8. Drawing with sizes 10 cm, 8 cm, 3 cm.  
 9. 54 m  
 10. 3 cm  
 11.  $\frac{1}{200}$   
 12.  $w = 96$ ,  $h = 15$ .

### Chapter 10 Page 103

1. a £28      b £135      c £19.50  
 2. a £1.05      b £1.75  
 3. a £12      b £6.30      c £70  
 4. £25.32  
 5. a 8 pies      b 10 pies cost £1.22 each,  
 8 pies cost £1.20 each.  
 6. a £4000, £2000  
 b 72, 108  
 7. Sara £500000, Tina £300000,  
 Una £200000  
 8. a Bottom line 50 100 150 200 250 300  
 b Drawing  
 c 450 km

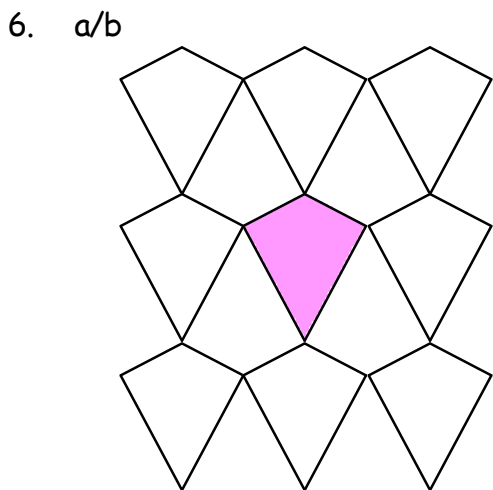
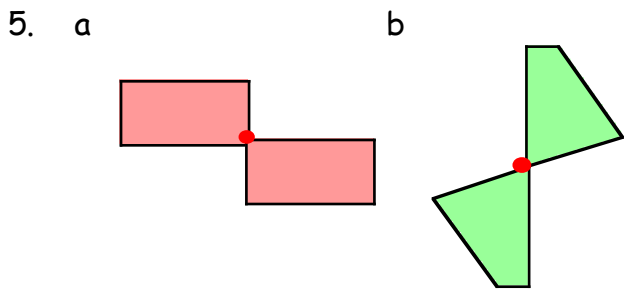
### Chapter 11 Page 115

1. a 3      b 2      c 2  
 d 0      e 8      f 0



3. a yes      b yes      c no  
d no      e no      f yes

4. a  $\frac{1}{4}$  order 4      b none  
c  $\frac{1}{3}$  order 3      d  $\frac{1}{4}$  order 4  
e  $\frac{1}{6}$  order 6      f  $\frac{1}{2}$  order 2



7. a no      b yes  
c yes      d no

**Chapter 12 Page 136**

1. a 18      b 22  
c 6      d 90
2. a July - off to swim on summer hols.  
b Swimsport by 3000

- c Paddlepro, Sept - Oct  
d Paddlepro  
e More people going off on holiday to the sun late in the year

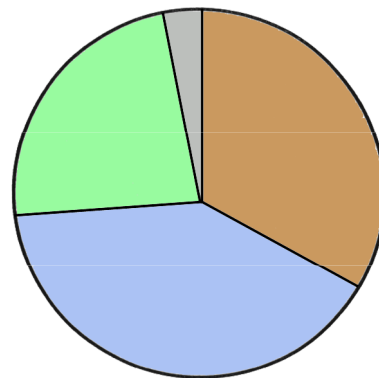
3. a  $210^\circ$       b (i) 60      (ii) 40  
c 140

4. a

15	3	3
16	3	8 8
17	4	4 4 4
18	0	0 1 5 7
19	0	0 6
20	0	0 2

$15 \mid 3 = 153$

- b £174      c £180
5. a 30      b  $120^\circ, 144^\circ, 84^\circ, 12^\circ$   
c



6. a £275      b £484      c Christmas
7. 73
8. 9m
9.  $4^\circ\text{C}$
10. 82.5g
11. a 16 per box - not 17!      b 27
12. a Tina 3 Anne 4  
b Tina's mum actually bought more cartons but it doesn't look that way using mode
13. mode = £1.50 median = £1.50 mean = £1.50
14. 13

**Chapter 13 Page 148**

1. a  $\frac{1}{3}$       b  $\frac{7}{26}$
2. a  $\frac{3}{5}$       b  $\frac{3}{10}$
3. 50
4. 20
5. a  $\frac{1}{25}$       b  $\frac{3}{5}$
6. 2
7.  $\frac{4}{169}$