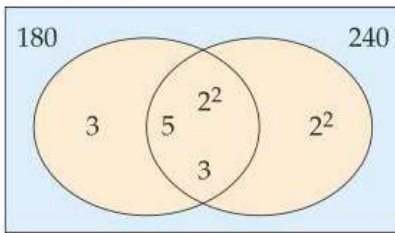


Check in 1

- 1 a 20 b 4 c 7 d 7.5
 2 3.085, 3.8, 3.825, 3.83, 3.9

MyReview 1

- 1 a 0.076 b 4510 c 1520
 d 920 e 2.168 f 3.6
 2 a 7200 b 8290000
 c 0.041 d 0.000308
 3 a 10^7 b 10^7 c 10^{16}
 d 10 e 10^3 f 10^4
 4 a 300 b 270 c 271
 d 271.1 e 271.10 f 271.099
 5 a 500 b 30000 c 6
 d 0.3 e 0.09 f 1
 6 a $2^3 \times 3^3 \times 11$ b $2 \times 3 \times 7 \times 13$
 c $2^3 \times 5 \times 17$
 7 a



- b 60 c 720
 8 a 800 b 4 c 30
 d 320000 e 0.9 f 70
 9 a £16
 b $\text{£}1.48 \times 36 \approx \text{£}1.50 \times 40 \approx \text{£}60$. This is an underestimate, £60 will be enough.

Check in 2

- 1 a 30 cm, 50 cm² b 24 cm, 36 cm²
 c 36 cm, 48 cm²
 2 36 m³
 3 a 5500 b 40

MyReview 2

- 1 a 4900 mm b 0.87 l c 470 g
 d 90 mm² e 30000 cm² f 3000 cm³
 2 a 1.8 l b 10.9 kg
 c 144 km d 0.975 m
 3 28 cm²
 4 8 cm
 5 42.5 m²
 6 a 153.9 cm² b 44.0 cm
 7 a 153.9 cm² b 50 cm
 8 a 40 miles per hour b 11.3375 g/cm³

Check in 3

- 1 a i $3n + 4$ ii 22
 b i $3(n + 4)$ ii 30
 2 a 32 b $13x + 7$

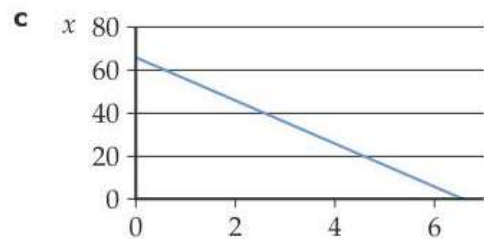
MyReview 3

- 1 a $3(5x - 1)$ b $8(a + 3b)$
 c $24p(q + 2)$ d $7(3 - 4v)$
 2 a $x(x + 8)$ b $3x(x + 3y)$
 c $z(z^2 + 3z - 1)$ d $4y^2(4y - 3)$
 3 a $2r$ b $\frac{pq}{5}$
 c $3ab$ d $\frac{3x}{4yz}$
 4 a $\frac{x}{52}$ b $\frac{a}{14}$
 c $\frac{19y}{24}$ d $\frac{11b}{24}$

- 5 72
 6 a $x = 2a + 3b$ b $x = \frac{y - 15}{2}$
 c $x = \sqrt{\frac{5z - 4y}{3}}$
 7 a $v = \sqrt{\frac{2E}{m}}$ b 7.56 c 22.2
 8 a $A = 48p$ b 6 cm
 9 a $A = 66 - 10x$

b

x (cm)	1	2	3	4	5	6
A (cm ²)	56	46	36	26	16	6



Check in 4

- 1 a 12 b 35 c 5
 2 a £4.50 b 22 km c £23.04
 3

Fraction	Decimal	Percentage
$\frac{13}{20}$	0.65	65%
$\frac{5}{8}$	0.625	62.5%
$\frac{2}{25}$	0.08	8%

- 4 a 35 b 24 c 30 d 48
 5 a 5 b 14 c 126

MyReview 4

- 1 a $\frac{17}{32}$ b $\frac{9}{20}$ c $\frac{15}{28}$ d $\frac{61}{84}$
 2 a $\frac{109}{28}$ b $\frac{23}{18}$ c $\frac{151}{24}$ d $\frac{23}{12}$
 3 a £16.36 b 17.78kg
 c 14.67m d 571.43m
 4 a $\frac{12}{7}$ b $\frac{21}{4}$ c $\frac{9}{110}$ d $\frac{3}{14}$
 5 a $\frac{56}{3}$ b $\frac{4}{3}$
 6 a 0.15 b 0.2
 c 1.1 d 0.225
 7 a 92 b 148.8
 8 £928.80
 9 16%
 10 9.3%
 11 B

Check in 5

- 1 a 63° b 54° c 49°
 2 A rectangle, B rhombus,
 C isosceles trapezium, D arrowhead,
 E parallelogram, F kite, G square

MyReview 5

- 1 a = 97° , corresponding angles are equal
 b = 21° , angles in triangle add up 180°
 c = 114° , other two angles in triangle are 66
 since it is isosceles, angles on a straight line
 add up 180°
 d = 88° angles at top of triangle are both 46°
 (angles straight line, isosceles triangle)
 2 a = 109° b = 144° c = 36°
 3 a 8 b 8 c 135° d 45°
 4 a yes b yes c no d yes
 5 a 9cm b 132° c 48°
 6 Check student's drawings

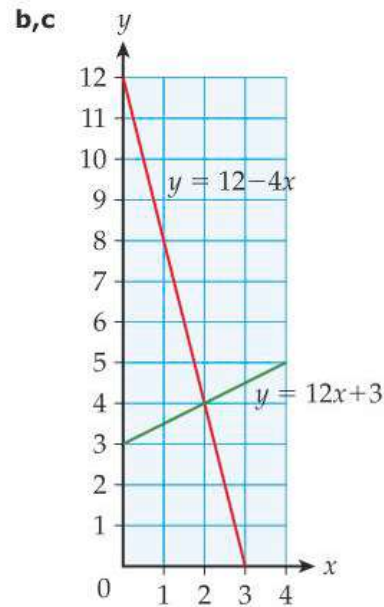
Check in 6

- 1 a y = 2 b y = 0 c y = 8
 2 a Check students' drawings
 b D(3, -2)
 c 48 square units

MyReview 6

1 a

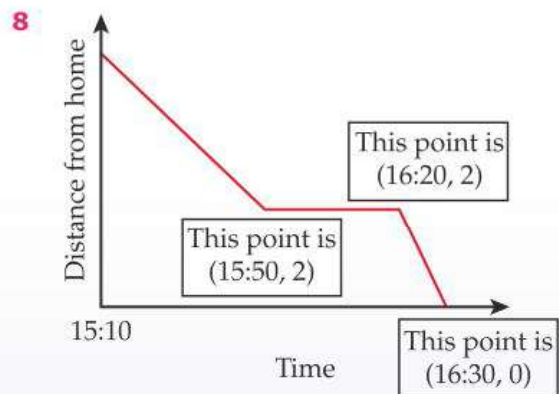
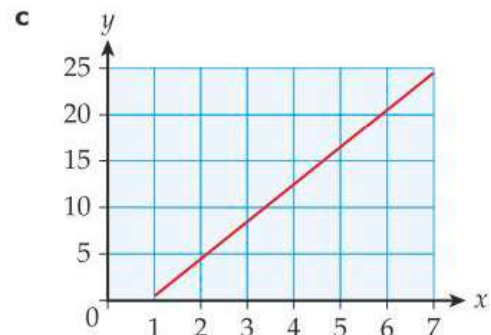
x	0	1	2	3
y	12	8	4	0



- d (2, 4)
 2 yes
 3 a y = 2x - 1 b y = 6 - x
 c y = $\frac{1}{2}x + 2$ d x = 6
 4 (0, 8), (6, 0)
 5 a $\frac{1}{2}$ b 14
 6 a 11 b 0
 7 a $\frac{1}{2}x^2 = \frac{1}{2} \times 4^2 = 8\text{cm}^2$

b

x	1	2	3	4	5	6	7
A	0.5	2	4.5	8	12.5	18	24.5



- 9 a week 4 b week 2

Check in 7

- 1 a 290 b 3.86 c 420 d 4.2
 2 a i 2500 ii 2460 iii 2456.8
 b i 900 ii 930 iii 928.3
 3 a 9.5 b 6.4 c 18.7 d 8.9
 e 143 f 1075 g 7406 h 30.8
 4 a 15.8 b 16 c 18.9 d 29.4
 5 a 28 b 8

MyReview 7

- 1 a 94.963 b 129.88
 c 8.758 d 44.2411
 2 53.37kg
 3 a 13.95 b 22.96
 c 8.904 d 1289.28
 4 £5.94
 5 a 5 r4 b 54 r5
 c 77 r6 d 52 r2
 6 a 220 b 211.7
 c 636.3 d 403.7
 7 a 45 b 1.54
 c 1647.09 d 0.62
 8 a 20m, 95cm b 27min, 58s
 c 5m, 24cm, 3mm
 d 4 weeks, 6 days, 2hr, 8min
 9 a 43 b 50ml

Check in 8

- 1 a 7 b 19.25 c 5.82
 2

Division 1					Division 2		
				0	6	6	
6	3	2	1	0	0	0	3
		8	4	3	4	0	0
9	8	7	6	5	3	0	6
		5	5	3	2	3	
					1		

MyReview 8

1

Time	Chaffinch	Sparrow	Starling	Wood Pigeon
Morning				
Afternoon				
Evening				

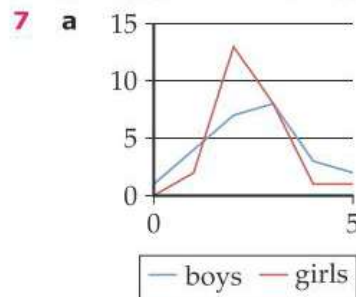
2

Weight, w	Frequency
$4.5 \leq w < 5$	3
$5 \leq w < 5.5$	2
$5.5 \leq w < 6$	4
$6 \leq w < 6.5$	3
$6.5 \leq w < 7$	2
$7 \leq w < 7.5$	2

3

- chocolate 13
 strawberry 8
 vanilla 10
 mint choc-chip 2
 other 5

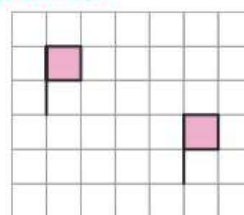
- 4 a increasing b 1981~1991
 5 a 30 b 28.9
 c 29.5 d 4
 6 a 19 b 10-14
 c 10.5 d 10.9



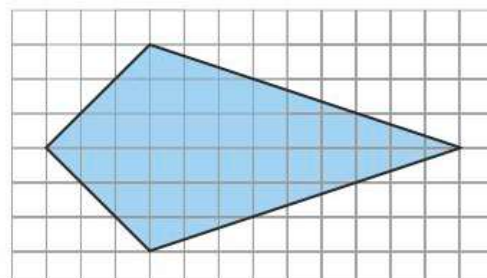
- b e.g. mode for boys higher than girls, boys have bigger range

Check in 9

1



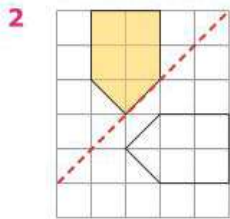
2



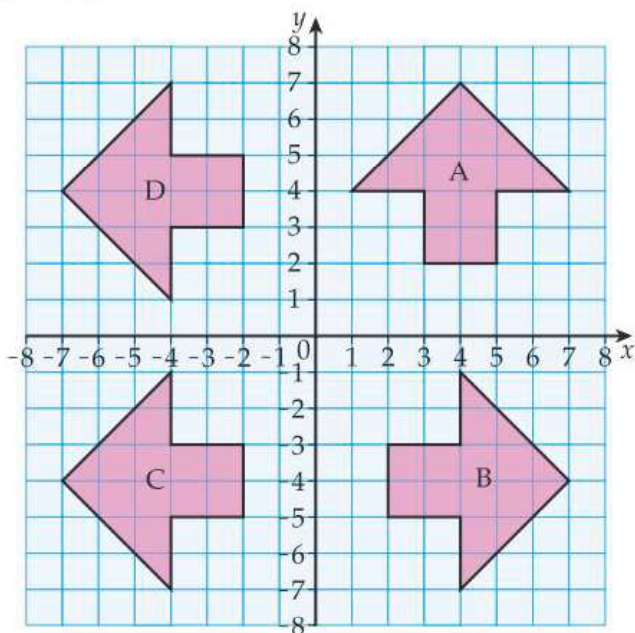
- 3 a 2.3m b 4km
 c 5500m d 450000 cm
- 4 a 40° b 140°
 c 220° d 320°

MyReview 9

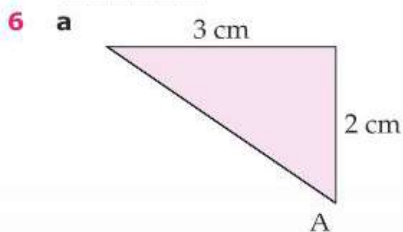
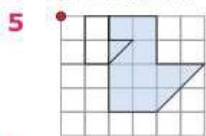
- 1 a translation of 1 unit left and 5 units down
 b rotation of 90° anti-clockwise about (0, 0)
 c reflection in the y-axis / line $x = 0$



3 a,b,c



- d rotation 90° anticlockwise about (0, 0)
 4 scale factor 3, centre of enlargement (4, 4)



b 10.8m

- 7 a 042° b 222°
 c 294° d 114°

Check in 10

- 1 a $3 \times 3 \times 3 = 27$ b $3^2 = 9$
 2 a 8 b 16 c 3 d 48
 4 a $8x + 7y$ b $6x + 9y$
 5 a 13 b $11x + 25$

MyReview 10

- 1 a 9 b $\frac{1}{2}$ c -2
 d $-\frac{3}{2}$ e 3 f 12
 g 10
 2 a -4 b 6 c 11
 d -1
 3 a 2 b -12 c 24
 d -13 e -3 f 16
 4 a 56 b 4 c 5
 5 5.8
 6 a 2.4 b 2.6 c 4.3
 7 3.6

Check in 11

- 1 a 3 b 5
 2 a 1024 b 1024 c 1024
 All answers = $2^{10} = 1024$
 3 16, 25, 49, 100
 4 8, 27, 1000

MyReview 11

- 1 a 24 b 35
 2 a 26.5 b 5.8
 3 a $3a^2$ b $6b^3c^2$ c $4d^6$
 d $e^{10}f^3$ e g^4h^6 f i
 g j^2k^6 h m^8 i $n^{15}p^{10}$
 k $4r^2s$
 4 a 5 b 6
 c 12 d 20
 5 a $2\sqrt{7}$ b $6\sqrt{2}$
 c $5\sqrt{5}$ d $11\sqrt{3}$
 6 a $3\sqrt{2}$ b $2\sqrt{15}$
 c $42\sqrt{3}$ d $60\sqrt{3}$
 7 a $3^{\frac{1}{2}}$ b $4^{\frac{1}{3}}$
 c $7^{\frac{1}{2}}$ d $10^{\frac{1}{3}}$
 8 a 5 b 10
 c 11 d 4
 9 a 82000000 b 5420
 c 0.00031 d 0.00000609

- 10 a** 5.6×10^3 **b** 8.73×10^5
c 6.2×10^{-2} **d** 1.07×10^{-4}
e 2.45×10^6 **f** 4.2×10^{-2}

Check in 12

- 1** Check students' drawings
2 a 9 **b** 144 **c** 9 **d** 14
3 Check students' drawings

MyReview 12

- 1 a** check ASA: 112° , 6.5 cm, 40°
b check SAS: 75 mm, 44° , 75 mm
or ASA: 68° , 75 mm, 44°
2 check SSS: 5.2 cm, 6.3 cm, 9.1 cm
3 a check circle radius of 3 cm
b check circle radius of 4 cm with the same
centre as circle in part a
4 check angle of 164° bisected to two 82° angles
5 a 12.1 cm **b** 5.7 cm **c** 88.7 mm
6 yes
7 a 6.32 **b** 19.6

Check in 13

- 1 a** £63 **b** £153
2 a 2 **b** 36

MyReview 13

- 1 a** double (the previous term); 16, 32
b halve; 5, 2.5
c double then add 1; 47, 95
2 a add 3 **b** 13

c

Position	1	2	3	4
..3... times table	3	6	9	12
term	4	7	10	13

- d** multiply (the position) by 3 then add 1
e 61
3 a multiply (the position) by 4 then add 1
b multiply by 7 then add 11
c multiply by 0.5 then add 3
d subtract the position from 10
4 a 4, 10, 16, 22, 28
b -0.5, 0, 0.5, 1, 1.5
c 8, 10, 12, 14, 16
d 10, 8, 6, 4, 2
5 a $2n + 1$ **b** $10n - 2$
c $5n - 10$ **d** $13 - 3n$
6 a 73, 68, 63, 58, 53, 48, 43
b 8 **c** Tuesday
7 a $T(1) = 5$, $T(n + 1) = T(n) + 3$

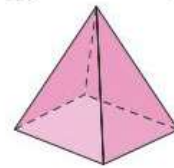
- b** $T(1) = 16$, $T(n + 1) = T(n) - 5$
c $T(1) = 3$, $T(n + 1) = 2T(n)$
d $T(1) = 324$, $T(n + 1) = \frac{1}{3}T(n)$

Check in 14

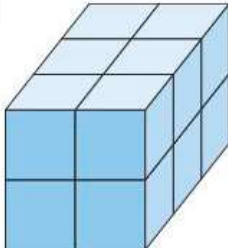
- 1 a** Square
b Equilateral triangle
c Regular pentagon
d Regular hexagon
e Regular octagon
2 a 40 cm^2 , 16 cm^3 **b** 42 cm^2 , 18 cm^3
3 a 405 cm^2 **b** 50 cm^2

MyReview 14

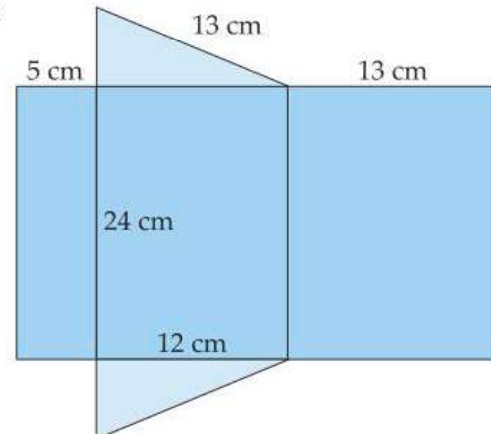
- 1 a** 8 **b** 18 **c** 12
2 a



d square-based pyramid

- 3 a**  **b** 12

- 4** 3
5 a



- b** 780 cm^2
6 294 cm^2
7 1728 cm^3
8 80 cm^3

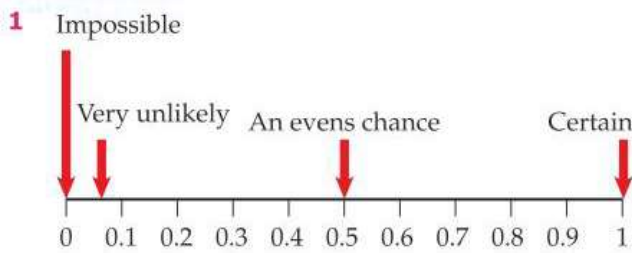
Check in 15

- 1 a i $\frac{2}{5}$ ii 40%
 b i $\frac{3}{4}$ ii 75%
 c i $\frac{3}{8}$ ii 37.5%
 d i $\frac{3}{10}$ ii 30%
- 2 a 1:3 b 2:3 c 1:5 d 3:1

MyReview 15

- 1 £1.60
 2 0.315g
 3 A
 4 a 2:4:3 b 2:9
 5 a 350m, 250m b £18, £72, £27
 6 a 1:2.4 b 1:1.5
 7 a 600m b 8cm
 8 $\frac{3}{7}$ or 42.9%
 9 £95
 10 25%
 11 a 0.454 b 2.20 (2dp)

Check in 16



- 2 The probability of getting a prime number

$$= \frac{\text{Number of prime scores}}{\text{Total number of scores}} = \frac{3}{6} = \frac{1}{2}$$
- 3 a 0.6 b 0.625 c 0.45
 d 0.15 e 0.27 f 0.037

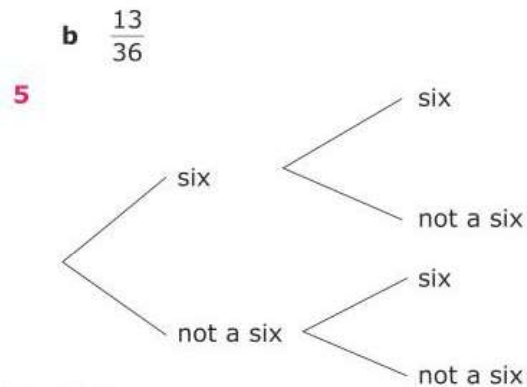
MyReview 16

- 1 a no b no c yes

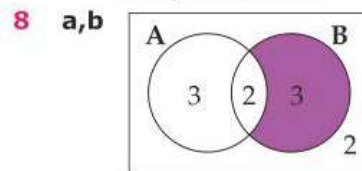
- 2 a $\frac{1}{2}$ b $\frac{1}{2}$ c $\frac{3}{10}$ d $\frac{2}{5}$
 3 a $\frac{1}{6}$ b $\frac{1}{3}$ c $\frac{1}{3}$ d 0

4 a

×	1	2	3	4	5	6
1	1	2	3	4	5	6
2	2	4	6	8	10	12
3	3	6	9	12	15	18
4	4	8	12	16	20	24
5	5	10	15	20	25	30
6	6	12	18	24	30	36



- 6 0.22
 7 a 0.1, 0.1, 0.3, 0.3, 0.2 b all 0.2
 c could be fair, results not unreasonable, not enough evidence



- c $\frac{3}{10}$
 d C is a proper subset of A.
 e B and C are mutually exclusive.