

Maths

S2 Green

Homework Booklet

**Chapter Topic**

1 Whole Numbers

2 Co-ordinates

3 Decimals

4 Angles

5 Fractions

6 Symmetry and Tessellations

7 Percentages

8 Measurement

9 Time

10 Perimeter and Area

11 Information Handling

12 Number Patterns and Formulae

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14 Information Handling 2

15 3D Shapes

16 Problem Solving

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**S2 Green Ch1 Whole Numbers Homework**

**Homework Exercise 1.1 Writing numbers**

Q1 Write the following numbers using figures:

(a) two thousand, five hundred and sixty

(b) four million, seven hundred and twenty thousand, five hundred

(c) eight hundred and fifty thousand, nine hundred and eighteen

Q2 Write the following numbers in words: (a) 81 703 (b) 342 612 (c) 515 362

Q3 Write the number which is: (a) 1000 more than 25 202 (b) 2000 less than 33 420

**Homework Exercise 1.2 Ordering numbers**

Q1 Write the following numbers in order. Start with the smallest.   
(a) 137, 142, 134, 150, 121, 178

(b) 841, 852, 823, 865, 843, 818   
(c) 3412, 3701, 3240, 3972, 3090, 3643

(d) 6998, 6357, 6548, 5978, 6421, 6734   
(e) 450 000, 470 000, 390 000, 550 000, 310 000, 640 000

(f) 254 201, 36 480, 255 879, 14 980, 3521, 45 198, 9100

**Homework Exercise 1.3 Rounding**

Q1 Round each number to the nearest ten.

(a) 51 (b) 78 (c) 149 (d) 191 (e) 4812 (f) 3265

Q2 Round each number to the nearest hundred.

1. 320 (b) 570 (c) 258 (d) 781 (e) 4624 (f) 7384 (g) 42 197 (h) 91 312

**Homework Exercise 1.4 Addition and Subtraction**

Q1 Calculate: (a) 72 + 36 (b) 84 - 61 (c) 517 + 225 (d) 852 - 435

(e) 2347 + 1902 (f) 6240 - 4350

Q2 David buys an iPad costing £319. He gets a £20 discount. How much will

he pay?   
Q3 Susan buys a new car. She has to pay a deposit - £200, insurance - £429 and

road tax - £120.How much does she pay altogether?

Q4 Claire is using ribbon to make decorations. She had a coil of ribbon 500cm

long. From it, she cuts lengths of 120cm and 345cm.

(a) How much ribbon did she cut in total?   
 (b) How much ribbon was left?

**Homework Exercise 1.5 Multiplication**

Q1 Find (a) 23 × 4 (b) 54 × 3 (c) 18 × 6 (d) 38 × 2 (e) 75 × 5 (f) 45 × 4

(g) 32 × 8 (h) 84 × 7

Q2 Find (a) 152 × 3 (b) 316 × 5 (c) 428 × 4 (d) 162 × 9 (e) 484 × 7 (f) 423 × 2

(g) 604 × 8   
Q3 A packet of 6 cupcakes costs £3. How much will 8 packets cost?   
Q4 John buys a new car. He pays 9 instalments of £235 each. How much does

he pay altogether?   
Q5 Golders fruit company pack apples in boxes of 150. How many apples will

be in eight boxes?   
Q6 Angela has a recipe to make a chocolate cake. She needs 220g flour,

140g sugar, 185 butter, 2 eggs and 30g of cocoa powder.

How much of each ingredient does she need to make 4 cakes?

**Homework Exercise 1.6 Multiplying by 10 and 100**

Q1 Find (a) 12 × 10 (b) 27 × 10 (c) 142 × 10 (d) 10 × 326 (e) 1943 × 10

(f) 10 × 857   
Q2 Find (a) 15 × 100 (b) 64 × 100 (c) 284 × 100 (d) 3000 × 100 (e) 5230 × 100

(f) 99 × 100

Q3 Find (a) 32 × 10 (b) 435 × 100 (c) 2107 × 100 (d) 10 × 459 (e) 6780 × 100

(f) 9371 × 10

Q4 A packet of sweets costs 27 pence. What is the cost of 10 packets?   
Q5 Derek pays his council tax over 10 months. If he pays £187 each month,

how much does he pay altogether?

**Homework Exercise 1.7 Division**

Q1 Calculate (a) 56 ÷ 4 (b) 48 ÷ 3 (c) 72 ÷ 6 (d) 52 ÷ 2 (e) 84 ÷ 7 (f) 6÷ 5

Q2 Calculate (a) 87 ÷ 3 (b) 52 ÷ 4 (c) 138 ÷ 6 (d) 34 ÷ 2 (e) 98 ÷ 7 (f) 136 ÷ 4

Q3 Mr Arnold has 32 coloured pencils. He shares them equally among 8 pupils.

How many pencils does each pupil receive?

Q4 David, Anna and Catherine share £90 equally among themselves.

How much is each share?   
Q5 Melvin’s Store sells packs of 6 pens for 48 pence. How much is one pen?   
Q6 Barry’s lamp changes colour 5 times every 80 minutes. How long does it

stay on each colour?

**Homework Exercise 1.8 Dividing by 10 and 100**

Q1 Calculate: (a) 240 ÷ 10 (b) 150 ÷ 10 (c) 760 ÷ 10 (d) 910 ÷ 10 (e) 360 ÷ 10

Q2 Calculate: (a) 7800 ÷ 100 (b) 1400 ÷ 100 (c) 4600 ÷ 100 (d) 8800 ÷ 100 (e) 9700 ÷ 100

Q3 A £7500 prize is to be shared among 10 people. How much will each person

receive?

Q4 A 7600 centimetre ribbon is to be cut into 100 centimetre strips.

How many strips can be cut?   
Q5 110 people are invited to a charity dinner. If 10 people are seated at each

table, how many tables will be needed?

**Homework Exercise 1.9 The Order of Operations**

Q1 Find: (a) 3 + 4 x 2 (b) 5 x 4 - 10 (c) 24 ÷ 6 + 7 (d) 37 ÷ 5 - 4 (e) 8 + 7 x 3

Q2 Copy and complete using +, -, x or ÷:

(a) 9 3 + 2 = 5 (b) 10 - 2 2 = 6 (c) 15 5 - 2 = 1 (d) 35 + 7 8 = 13 (e) 14 2 3 = 10

**Homework Exercise 1.10 Making Sense of Answers**

Q1 David has 60 pens. He puts them into boxes of 5. How many boxes will he need?

Q2 Claire has £21. She sees DVDs costing £4 each. How many could she buy?

Q3 Mrs Hughes has 29 eggs. (a) If one sponge cake uses 4 eggs, how many sponge cakes can she make? (b) How many eggs are left?

**Homework Exercise 1.11 Mental Strategies**

Q1 Find mentally: (a) 27 + 34 (b) 76 + 37 (c) 26 + 45 (d) 47 + 19 (e) 58 + 33 (f) 72 + 21

Q2 Find mentally: (a) 58 - 37 (b) 96 – 39 (c) 46 - 27 (d) 63 – 17 (e) 99 – 75 (f) 54 - 36

**Revision exercise for Chapter 1**

Q1 Write the following numbers using figures: (a) three thousand, four hundred and sixty (b) seventy one thousand, five hundred

(c) twenty four thousand, six hundred and fifty one

(d) six million, seven hundred and forty thousand.

Q2 Write the following numbers in order, starting with the smallest.

(a) 203, 540, 360, 291, 137, 306 (b) 3608, 2480, 1045, 2940, 1750, 3087   
(c) 17 540, 14 935, 13 480, 11 356, 14 709, 14 911

(d) 254 315, 269 140, 254 752, 268 421, 214 709, 214 682

Q3 Round the following numbers to the nearest hundred:

(a) 570 (b) 960 (c) 450 (d) 142 (e) 119 (f) 6216 (g) 1836 (h) 5846

Q4 Find (a) 27 × 5 (b) 43 × 3 (c) 16 × 4 (d) 54 × 2 (e) 31 × 6 (f) 82 × 4

Q5 Find (a) 241 × 3 (b) 157 × 5 (c) 624 × 7 (d) 143 × 9 (e) 582 × 7 (f) 893 × 2

Q6 Calculate (a) 48 ÷ 3 (b) 74 ÷ 4 (c) 114 ÷ 6 (d) 98 ÷ 2 (e) 196 ÷ 7 (f) 378 ÷ 2

Q7 Lewis has 351 sweets. If he eats 294 sweets, how many does he have left?

Q8 Callum wants to buy a car costing £8572. If he is given a £630 discount, how much

will he pay for the car?

Q9 Find (a) 76 × 10 (b) 547 × 100 (c) 3614 × 100 (d) 10 × 487 (e) 1030 × 100

(f) 5710 × 10

Q10 Calculate: (a) 560 ÷ 10 (b) 2100 ÷ 100 (c) 460 ÷ 10 (d) 4700 ÷ 100 (e) 3600 ÷ 100

Q11 Mrs Hughes invited 56 people to her wedding. The tables sat 8 people. How many

tables did she have?

Q12 Stuart is putting boxes onto a shelf. Each box is 4 cm wide and the shelf is 247 long.

1. How many books will fill the shelf? (b) How much space is left?

**S2 Green Ch2 Coordinates Homework**

**Homework Exercise 2•1 Reading Coordinates**

H

10

E

Q1 Write down the coordinates of each point

F

A

Q2 Which letters have the same y coordinate?

5

Q3 What two letters have the same x coordinate?

B

G

C

D

Q4 The treasure is hidden where the

x coordinate is 5 and where the

y coordinate is 10

10

5

**Homework Exercise 2•2 Plotting Coordinates**

Q1 Draw a 5 × 5 grid and plot these points A( 1, 4 ) B( 1 , 0 ) C( 5 , 0 ) D( 5 , 4 )

Join A-B-C-D-A.

1. What shape do you get? (b) What is the length of side AD?

Q2 Draw a 10 × 10 grid and plot these points

P( 0 , 4 ) Q( 2 , 6 ) R( 4 , 6 ) S( 6 , 4 ) T( 4 , 2 ) U( 2 , 2)

Join P-Q-R-S-T-U.

1. What shape do you get? (b) What is the length of side ST

**Homework Exercise 2•3 Directions for a Journey**

Q1 Write down the directions for the journey below.

Forward 2 squares, turn , Forward squares, turn…

|  |  |
| --- | --- |
| (a) | (b) |

Q2 Draw the journey described.

Go Forward 3 squares. Turn left. Go Forward 2 squares. Turn right. Go Forward 1 square. Turn left. Go Forward 2 squares. Turn right. Go Forward 2 squares. Turn right. Go Forward 4 squares, then end.

**First Revision Exercise for Chapter 2 Coordinates**

5

5

A

B

C

F

E

H

D

1 (a) Write the coordinates of

all the points in the diagram.   
 (b) Which points have the same x-coordinates?

(c) Which points have the same y-coordinates

2 Draw a 5 × 5 grid and plot these points A( 2, 5 ) B( 5 , 5 ) C( 5 , 3 ) D( 2 , 3 )

Join A-B-C-D-A.

1. What shape do you get? (b) What is the length of side AD?

3 Draw a 10 × 10 grid and plot these points

A( 1, 1 ) B( 9 , 1 ) C( 9 , 6 ) D( 5 , 10 ) E (1, 6) Join A-B-C-D-E-A

What shape do you get?

4 Write down the directions for the journey to the right.

Forward 2 squares, turn ,

Forward squares, turn…

|  |  |
| --- | --- |
| (a) | (b) |

5 Draw the journey described.

Go Forward 2 squares. Turn left. Go Forward 3 squares. Turn right. Go Forward 4 squares. Turn left. Go Forward 1 square. Turn left. Go Forward 2 squares. Turn right. Go Forward 1 square. Turn right. Go Forward 2 squares, then end.

**Second Revision Exercise for Chapter 2 Coordinates**

5

5

A

B

C

G

E

F

D

1 (a) Write the coordinates of

all the points in the diagram.   
 (b) Which points that have the same

x-coordinates?   
 (c) Which points that have the same

y-coordinates?

2 Draw a 5 × 5 grid and plot these points A( 0, 4 ) B( 4 , 4 ) C( 4 , 0 ) D( 0 , 0 )

Join A-B-C-D-A.

1. What shape do you get? (b) What is the length of side AD?

3 Draw a 10 × 10 grid and plot these points

A( 1, 1 ) B( 0, 3 ) C( 1 , 5 ) D( 4 , 5 ) E (5, 3) F ( 4, 1) Join A-B-C-D-E-F-A

What shape do you get?

4 Write down the directions for the journey to the right.

Forward 3 squares, turn left,

Forward squares, turn…

|  |  |
| --- | --- |
| (a) | (b) |

5 Draw the journey described.

Go Forward 1 square. Turn left. Go Forward 3 squares. Turn right. Go Forward 2 squares. Turn right. Go Forward 2 squares. Turn right. Go Forward 2 squares. Turn left. Go Forward 3 squares, then end.

**S2 Green Ch3 Decimals Homework**

**Homework Exercise 3•1 Tenths**

Q1 For each pair, write which number is bigger.

1. 0.5 or 0.9 (b) 0.1 or 0.3 (c) 0.4 or 0.6 (d) 0.7 or 0.2 (e) 0.9 or 0.8 (f) 0.3 or 0.8

**Homework Exercise 3•2 Hundredths**

Q1 Write the number represented by the shaded part as a decimal.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

**Homework Exercise 3•3 Place Value**

Q1 What does the digit 7 stand for in each number?

1. 0.7 (b) 0.07 (c) 0.17 (d) 5.70 (e) 14.76 (f) 7.06

Q2 How many decimal places do each of these numbers have?

1. 63.1 (b) 24.67 (c) 45.3 (d) 78.6 (e) 0.05 (f) 4.62 (g) 100.36

**Homework Exercise 3•4 Ordering numbers with one decimal place**

Q1 For each pair, which is bigger:

1. 3.2 or 4.2 (b) 5.6 or 5.3 (c) 1.8 or 1.7 (d) 4.8 or 4.1 (e) 9.2 or 8.9 (f) 6.3 or 7.2

Q2 Order these numbers, smallest first.

1. 2.3, 2.7, 2.5, 2.6, 3.1, 3.6
2. 11.3, 11.9, 11.5, 12.4, 11.8, 12.2
3. 9.6, 9.2, 8.7, 9.1, 8.4, 9.1, 8.3
4. 24.5, 23.1, 23.8, 23.9, 23.4, 24.1, 23.5

**Homework Exercise 3•5 Ordering numbers with two decimal places**

Q1 For each pair, which is bigger:

1. £3.21 or £3.54 (b) £5.41 or £5.74 (c) £9.68 or £9.14 (d) £8.25 or £8.93

Q2 For each pair, which is bigger:

1. 3.62 or 3.21 (b) 5.16 or 5.82 (c) 1.68 or 1.73 (d) 4.87 or 4.31 (e) 9.52 or 8.93

Q3 For each pair, which is bigger:

1. 3.62 or 3.67 (b) 5.16 or 5.17 (c) 2.92 or 2.98 (d) 6.5 or 6.72 (e) 9.52 or 9.3

Q4 Order these numbers, smallest first.

1. 2.35, 2.72, 2.5, 2.61, 3.17, 3.64
2. 1.13, 1.19, 1.15, 1.24, 1.18, 1.22
3. 9.26, 9.72, 8.97, 9.12, 8.54, 9.31, 8.63
4. 41.5, 41.31, 41.78, 42.1, 41.43, 41.61, 41.39

**Homework Exercise 3•6 Rounding to the nearest whole number**

Q1 Round each of the following to the nearest whole number.

1. 8.1 (b) 2.6 (c) 12.8 (d) 4.9 (e) 5.5 (f) 14.7 (g) 24.3 (h) 10.9

**Homework Exercise 3•7 Estimating**

Q1 Mrs Pollock sent two parcels. They weighed 2.3kg and 7.9kg. Estimate the total

weight of the two parcels.

Q2 A rally car consist of 3 stages

Stage 1: 32.4km

Stage 2: 28.7km

Stage 3: 29.5km

Estimate the distance of the race.

**Homework Exercise 3•8 Rounding to one decimal place**

Q1 Round each of the following to one decimal place.

1. 5.61 (b) 2.36 (c) 7.48 (d) 31.27 (e) 28.14 (f) 63.57 (g) 45.29 (h) 17.31

(i) 0.57 (j) 0.84 (k) 0.92 (l) 0.75 (m) 0.47 (n) 1.08

**Homework Exercise 3•9 Mental Methods**

Q1 Find:

1. 5.2 + 3.6 (b) 9.4 – 6.3 (c) 4.5 + 2.7 (d) 5.9 + 0.5 (e) 0.1 + 1.7 (f) 8.4 – 7.1

(g) 7.6 – 2.7 (h) 4.1 – 3.6 (i) 6.1 + 3.2 (j) 1.5 + 5.4 (k) 3.8 – 2.1 (l) 9.4 – 5.8

Q2 Susan has 2.4 meters of ribbon. She uses 1.8 meters. How much ribbon does she

have left?

Q3 A Geography class checks the temperature every morning at 9am. On Monday the

temperature was 10.7ºC and on Wednesday the temperature was 9.2ºC. By how much

had the temperature dropped?

**Homework Exercise 3•10 Adding and Subtracting.**

Q1 Josh buys three t-shirts. They cost £9.87, £11.25, £ 10.67. How much did Josh

spend?

Q2 Craig pays £45.12 for petrol and £4.95 for a car wash. How much did Craig pay

altogether?

Q3 A lorry can carry up to 15 tonnes of cargo. Find 3 ways of loading the lorry with at

least 2 vehicles.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Convertible 2.9 tonnes | Small Car  3.8 tonnes | | Police Car  4.9 tonnes | Van  10.6 tonnes | | Taxi  5 tonnes |
|  |  |  | |  |  | |

**Homework Exercise 3•11 Multiplying**

Q1 Mrs Black buys her 7 grandchildren an Easter egg. The eggs cost £1.75 each.

How much will Mrs Black spend?

Q2 A DVD costs £5.99. David buys 6. How much do the DVDs cost?

Q3 A magazine costs £3.55. Mary buys 3. How much is this?

Q4 Anna buys 4 packets of crisps costing 46p each. How much change does she get from

£5?

**Homework Exercise 3•12 Dividing**

Q1 Debbie cuts a piece of ribbon that is 1.2m long into six equal parts. How long is each

part?

Q2 Mr Weir shares a bag of stones weighing 5.4kg equally into 9 buckets. What weight

of stones are in each bucket?

Q3 A bingo prize of £201 was shared equally among 3 people. How much did each

receive?

Q4 Josh bought four t-shirts costing £25.80. How much did one t-shirt cost?

**Homework Exercise 3.13 Multiplying by 10 and 100**

Q1 Find (a) 3.2 × 10 (b) 4.1 × 10 (c) 22.3 × 10 (d) 0.2 × 10 (e) 0.9 × 10 (f) 5.4 × 10   
Q2 Find (a) 1.32 × 10 (b) 2.64 × 10 (c) 8.24 × 10 (d) 0.39 × 10 (e) 5.37 × 10 (f) 25.69 × 10

Q3 Find (a) 6.2 × 100 (b) 0.4 × 100 (c) 7.3 × 100 (d) 20.9 × 100 (e) 3.6 × 100 (f) 4.5 × 100

Q4 Find (a) 5.67 × 100 (b) 16.47 × 100 (c) 8.54 × 100 (d) 32.19 × 100 (e) 5.51 × 100

(f) 57.82 × 100

**Homework Exercise 3.14 Dividing by 10 and 100**

Q1 Calculate: (a) 24 ÷ 10 (b) 17 ÷ 10 (c) 29 ÷ 10 (d) 285 ÷ 10 (e) 230 ÷ 10 (f) 531 ÷ 10

Q2 Calculate: (a) 3.2 ÷ 10 (b) 9.5 ÷ 10 (c) 6.4 ÷ 10 (d) 1.8 ÷ 10 (e) 24.3 ÷ 10 (f) 36.4 ÷ 10

Q3 Calculate: (a) 123 ÷ 100 (b) 324 ÷ 100 (c) 548 ÷ 100 (d) 3 ÷ 100 (e) 59 ÷ 100 (f) 87 ÷ 100

**Homework Exercise 3.15 Using a Calculator**

Q1 Calculate: (a) £102 + £31.20 (b) £2480 - £470.97 (c) £3054.23 + £711.45

1. £5995 - £289.98 (e) £5874.36 + £247.59 (f) £1258.67 - £965.78

Q2 Calculate: (a) 12.365 – 4.58 (b) 45.69 + 231.75 (c) 85.6 x 5 (d) 32.14 x 7 (e) 92.01 x 6

Q3 Find: (a) 4.52 x 20 (b) 15.9 x 300 (c) 140.4 ÷ 3 (d) 156 ÷ 600

Q4 Jack pays for his new car in 24 instalments of £263.10. How much did he pay in total?

Q5 Lena buys 32 lollipops at 14 pence each. How much did she pay in total?

**Homework Exercise 3.16 Making sense of answers**

Q1 Mrs Johnstone needs 26 pencils for her pupils. If the pencils are sold in boxes of 8, how many boxes will she need to buy?

Q2 A school trip is being run for 260 pupils. If a bus holds 48 people, how many buses will be needed for the trip?

Q3 Sean, James and Lewis are sharing sweets equally among themselves.

1. If there are 54 sweets, how many does each boy receive? (b) How many are left over?

**First Revision Exercise for Chapter 3 Decimals**

Q1 For each pair, write which number is bigger.

1. 0.4 or 0.7 (b) 0.1 or 0.5 (c) 0.8 or 0.6 (d) 0.5 or 0.2 (e) 0.9 or 0.3 (f) 0.2 or 0.9

Q2 Write the number represented by the shaded part as a decimal.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

Q3 What does the digit 3 stand for in each number?

1. 0.3 (b) 0.03 (c) 0.13 (d) 5.30 (e) 14.36 (f) 3.06

Q4 How many decimal places do each of these numbers have?

1. 6.12 (b) 58.47 (c) 65.3 (d) 8.16 (e) 0.09 (f) 4.62 (g) 152.43

Q5 For each pair, which is bigger:

1. 6.3 or 2.3 (b) 7.1 or 7.9 (c) 9.7 or 9.1 (d) 4.8 or 4.2 (e) 9.2 or 9.9 (f) 4.5 or 5.1

Q6 Order these numbers, smallest first.

(a)3.2, 3.8, 3.1, 3.9, 2.9, 3.6 (b)21.3, 21.9, 21.5, 22.4, 22.8, 22.2

(c)10.6, 10.2, 9.7, 9.1, 10.4, 10.1, 10.3 (d)4.5, 3.1, 3.8, 3.9, 3.4, 4.1, 3.7

Q7 For each pair, which is bigger:

1. 8.21 or 8.29 (b) 1.69 or 1.47 (c) 7.36 or 7.29 (d) 9.5 or 9.72

Q8 Order these numbers, smallest first.

1. 7.35, 7.72, 7.5, 7.61, 7.17, 7.64 (b) 2.36, 2.48, 2.41, 2.31, 2.54, 2.45
2. 5.68, 5.62, 5.98, 5.14, 5.36, 5.47, 5.87

Q9 Round each of the following to the nearest whole number.

1. 2.3 (b) 7.9 (c) 15.6 (d) 5.8 (e) 4.5 (f) 28.1 (g) 30.2 (h) 19.7

Q10 Mr Hughes sent three parcels. They weighed 1.3kg, 2.4kg and 3.0kg. Estimate the

total weight of the two parcels.

Q11 Round each of the following to one decimal place.

1. 4.21 (b) 6.35 (c) 8.49 (d) 22.57 (e) 30.39 (f) 75.41

Q12 Find:

1. 5.4 + 3.2 (b) 7.4 – 1.3 (c) 5.7 + 3.4 (d) 4.9 + 0.5 (e) 3.4 + 1.7 (f) 9.6 – 6.3

Q13 Lara buys three tops. They cost £5.98, £12.54, £ 9.55. How much did Lara

spend?

Q14 Robert pays £25.16 for petrol and £3.95 for a sandwich. How much did Craig pay

altogether?

Q15 Mr O’Neill buys 6 magazines. They each cost £2.25 each.

How much will Mr O’Neill spend?

Q16 A DVD costs £6.45. David buys 5. How much do the DVDs cost?

Q17 Liz cuts a piece of ribbon that is 2.4m long into six equal parts. How long is each

part?

Q18 Find (a) 5.6 × 10 (b) 9.7 × 100 (c) 62.3 × 10 (d) 0.2 × 10 (e) 0.91 × 100 (f) 8.01 × 100

Q19 Calculate: (a) 12 ÷ 10 (b) 36 ÷ 100 (c) 295 ÷ 10 (d) 285 ÷ 100 (e) 7 ÷ 10 (f) 13 ÷ 100

Q20 Calculate: (a) £152 + £63.20 (b) £2190 - £85.97 (c) £4257.23 + £121.50

1. £9210 - £319.42 (e) £7874.19 + £241.31 (f) £7358.54 - £562.28

**S1 Green Ch4 Angles Homework**

**Homework Exercise 4.1 Turning**

1 John is standing in the middle of a football pitch. He is facing the South stand.

Which stand will he be facing if he makes a: (a) half turn (b) quarter turn clockwise (c) full turn?

2 The minute hand of a watch is pointing at 12. Where will it point after a

(a) quarter turn clockwise (b) half turn (c) full turn (d) quarter turn anticlockwise

**Homework Exercise 4.2 Naming angles**

1 Name each shaded angle.

L

P

B

Y

C

U

T

O

L

K

N

P

Q

M

P

E

G

F

D

S

R

Q

Q3 Copy the diagrams and shade each named angle.

1. ABC(b) MNP

C

A

D

B

**4.3 Types of angles**

Q1 Name each angle using acute, obtuse, right, straight, reflex.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |
| (d) | (e) |  |

Q2 (a) Draw an acute angle and name it angleFGH.

1. Draw an obtuse angle and name it angleRTY
2. Draw a reflex angle and name it angleKML

**Homework Exercise 4.4 Measuring Angles**

1 Write the size of the angle in each diagram.

|  |  |
| --- | --- |
| (a) | (b) |
| (c) | (d) |

Q2 For each angle write whether it is acute or obtuse and measure it.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |
| (d) | (e) | (f) |

**Homework Exercise 4.5 Drawing Angles**

Q1 Draw the following angles: (a) <ABC = 40° (b) <DEF = 100° (c) <NMO = 70°

(d) <XYZ = 160° (e) <STU = 25° (f) <RST = 145° (g) <PRQ = 139° (h) <KLM = 88°

**Homework Exercise 4.6 Calculating with Right Angles**

Q1 Calculate the size of the shaded angle in each diagram.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

77°

26°

64°

45°

**Homework Exercise 4.7 Calculating with Straight Angles**

Q1 Calculate the size of the shaded angle in each diagram

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

160°

50°

148°

92°

|  |  |  |  |
| --- | --- | --- | --- |
| (e) | (f) |  |  |

88°

112°

75°

157°

**Homework Exercise 4.8 Compass Points**

**Homework Exercise 4.9 More Compass Points**

**Homework Exercise 4.10 Three figure bearings**

**First Revision Exercise for Chapter 4 You need a protractor for questions 5 and 6**.

1 John is standing in the middle of the football pitch. He is facing the West stand.   
 Which stand will he be facing if he makes a (a) half turn (b) quarter turn clockwise (c) full turn?

2 Name each angle.

P

K

G

L

H

J

M

E

3 Sketch the rectangle. Mark all the right angles.

L

4 Write the type of angle for each diagram in Q2.

5 Measure the angles in Q2.

6 Draw accurately the following angles, using a protractor. (a) <ABC = 50° (b) <KLM = 140°   
   
7 Write a set of directions for this route.

**Second Revision Exercise for Chapter 4 You need a protractor for questions 4 and 5**.

1 Sam is standing in the middle of the football pitch. He is facing the East stand.   
 Which stand will he be facing if he makes: (a) a half turn (b) a quarter turn clockwise (c) a full turn?

L

2 Name each angle.

F

Q

L

D

W

T

A

B

3 Write the type of angle shown in Q2: straight, acute, obtuse or right angle.   
4 Measure the size of each angle in Q2, using a protractor.   
5 Draw accurately the following angles, using a protractor. (a) <ABC = 20° (b) <DEF = 170°

6 Write a set of directions for this route.

**S2 Green Ch5 Fractions Homework**

**Homework Exercise 5.1 Finding fractions**

Q1 Find the fraction that is shaded.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |
| (e) | (f) | (g) | (h) |

Q2 Now find the fraction that is not shaded.

**Homework Exercise 5.2 Equal fractions using shapes**

Q1 In each pair of shapes the shaded sections are the same size. Write the equal fractions.

|  |  |  |
| --- | --- | --- |
|  | **(b)** | **(c)** |
| **(d)** | **(e)** |  |

**Homework Exercise 5.3 Equal fractions**

Q1Copy and complete the following.

1. (b) (c) (d) (e)  (f)

**Homework Exercise 5.4 Fractions of a quantity**

Q1 Calculate: (a)  of 24m (b)  of 49km (c)  of 16cm (d)  of 45kg (e)  of £120

Q2 Use a calculator to find: (a)  of 160km (b)  of 287mm (c)  of 280mm

(d)  of 8000cm (e)  of 90 litres

**Homework Exercise 5.5 Fractions and decimals**

Q1 Write each fraction as a decimal.

1. (b) (c) (d) (e) (f) (g) (h)

**First Revision exercise for Fractions**

Q1 Find the fraction that is shaded.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

Q2 Now find the fraction that is not shaded.

Q3 Copy and complete the following.

(b) (c) (d)

Q4 Calculate: (a) of £50 (b) of £66 (c) of £56 (d) of 60 m (e) of 24g

Q5 Use a calculator to find: (a)  of 72km (b)  of 56m (c)  of 72mm (d)  of 63cm

Q6 In the special Halloween Bumper Pack there are 72 lollipops.   
 are orange, are lemon, are raspberry and the rest are blackcurrant.

How many lollipops are: (a) orange (b) lemon (c) raspberry (d) blackcurrant?

**Second Revision exercise for Fractions**

Q1 Find the fraction that is shaded.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

Q2 Now find the fraction that is not shaded.

Q3 Copy and complete the following.

(b) (c) (d)

4 Calculate: (a) of £86 (b) of £68 (c) of £44 (d) of 92 m (e) of 364g

5 Calculate (a)  of 30km (b)  of 49m (c)  of 48mm (d)  of 72cm

6 In the special Halloween Bumper Pack there are 144 lollipops.   
 are orange, are lemon, are raspberry and the rest are blackcurrant.

How many lollipops are: (a) orange (b) lemon (c) raspberry (d) blackcurrant?

**S2 Green Ch6 Symmetry Homework**

**Homework Exercise 6.1 Line of symmetry**Q1Which of these shapes have line symmetry?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (a) | (b) | (c) | (d) | (e) |

Q2 Copy each shape and draw any lines of symmetry.



Q3 Copy and complete each diagram so that the dotted line is a line of symmetry.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

**Homework Exercise 6.2 Lines of Symmetry**

Q1 How many lines of symmetry does each shape have?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| (a) | (b) | (c) | (d) | (e) [http://cimg2.ck12.org/datastreams/f-d%3Ac1ae7dbaae3afd52b7d82ae515316f40ca51e1814dc22e04958701af%2BIMAGE%2BIMAGE.1](http://www.google.co.uk/url?sa=i&rct=j&q=shapes+with+3+lines+of+symmetry&source=images&cd=&cad=rja&uact=8&docid=osPXgPfSmRcahM&tbnid=NBkx3zpy5ezbWM:&ved=0CAUQjRw&url=http://www.ck12.org/user:b3JvYXJrLmphY2VseW5AY2hhbmRsZXIuazEyLmF6LnVz/section/Exploring-Symmetry/&ei=i6uRU-z1LuqK0AXir4CgCg&psig=AFQjCNE5dKRoaoB5HNxXoEgawcfP0dztRA&ust=1402141920533077) |

**Homework Exercise 6.3 Half-turn Symmetry**

Which of these shapes have half turn symmetry?

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |
| (e) | (f) | (g) | (h) |

**Homework Exercise 6.4 Tesselations**

Q1 Using square paper, copy and complete these tessellations using 12 tiles.

|  |  |
| --- | --- |
| (a) | (b) |

**First Revision Exercise for Chapter 2 Symmetry**

Q1 Copy each shape and draw any lines of symmetry.   
(a) (b) (c) (d)

Q2 Copy and complete each diagram so that the dotted line is a line of symmetry.



|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) |  |

Q3 How many lines of symmetry does each shape have?

(a) (b) (c)

Q4 Which of these shapes have half turn symmetry?

(a) (b) (c)

Q5 Using square paper, copy and complete these tessellations using 12 tiles.

(a) (b)



**S2 Green Ch7 Percentages Homework**

**Homework Exercise 7•1 Understanding Percentages**

Q1 For each diagram, write the fraction out of 100 and the percentage shaded.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

Q2 Write each fraction as a percentage.

1. (b) (c) (d) (e) (f)

Q3 Write each percentage as a fraction.

1. 42% (b) 12% (c) 2% (d) 93% (e) 21% (f) 68%

**Homework Exercise 7•2 Percentage of a Quantity**

Q1 Find: (a) 10% of 130kg (b) 25% of £16 (c) 50% of 400m (d) 25% of 36cm

(e) 10% of 80p (f) 25% of £40 (g) 10% of 330p (h) 50% of £90

Q2 Caitlin had £80. She spent 25% of her money on a new pair of shoes.

How much did the shoes cost?

Q3 Robert had £10. He spent 10% on sweets. How much did Robert have left?

Q4 Callum had £50. He spent 50% on a new game. How much did the game cost?

**Homework Exercise 7•3 Percentages and Deciamals**

Q1 Use a calculator to change each percentage into a decimal.

1. 31% (b) 14% (c) 57% (d) 26% (e) 42% (f) 48% (g) 7% (h) 9% (i) 80%

(j) 10% (k) 5% (l) 50% (m) 1% (n) 20% (o) 16% (p) 37%

**Homework Exercise 7•4 Percentages using a Calculator**

Q1 Calculate: (a) 30% of £60 (b) 15% of 520 (c) 52% of 300kg (d) 8% of 4500

Q2 Jack had £50. He spent 8% on a book. How much did the book cost?

Q3 Jennifer had £200. She spent 42% on a gift for her mum. (a) How much was the gift? (b) How much does she have left?

**First Revision Exercise for Chapter 2 Symmetry**

Q1 For each diagram, write the fraction out of 100 and the percentage shaded.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

Q2 Write each fraction as a percentage.

(b) (c) (d) (e) (f)

Q3 Write each percentage as a fraction.

1. 32% (b) 15% (c) 1% (d) 99% (e) 87% (f) 64%

Q4 Find: (a) 10% of 250kg (b) 25% of £32 (c) 50% of 600m (d) 25% of 40cm

Q5 Use a calculator to change each percentage into a decimal.

1. 29% (b) 69% (c) 85% (d) 43% (e) 17%

**Second Revision Exercise for Chapter 2 Symmetry**

Q1 For each diagram, write the fraction out of 100 and the percentage shaded.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

Q2 Write each fraction as a percentage.

(b) (c) (d) (e) (f)

Q3 Write each percentage as a fraction.

1. 44% (b) 16% (c) 4% (d) 28% (e) 74% (f) 61%

Q4 Find: (a) 10% of 470kg (b) 25% of £48 (c) 50% of 30m (d) 10% of 580cm

Q5 Use a calculator to change each percentage into a decimal.

1. 7% (b) 18% (c) 48% (d) 37% (e) 76%

**S2 Green Ch8 Measurement Homework**

**Homework Exercise 8•1 Reading Scales**

**Q1**

**Homework Exercise 6•2 Measuring**

Q1 Draw horizontal lines in your ,jotter of length (a) 3cm (b) 5cm (c) 4cm (d) 6cm

Q2 Measure accurately the length of the line in Q3 of H/W Exercise 6∙1, giving your answer in cm

**Homework Exercise 6•3 Metres and centimetres**

Q1 Write in cm (a) 5m 9cm (b) 2m (c) 4m 37cm

Q2 Write in m and cm (a) 528cm (b) 328cm (c) 59cm

**Homework Exercise 6•4 Weight**

Q1 Write in g (a) 8kg (b) 4kg 569g (c) 7kg 67g

Q2 Write in kg (a) 1 800g (b) l 675g (c) 1 465g

**Homework Exercise 6•5 Volume**

Q1 Write in litres (a) 1 000ml (b) 500m1 (c) 250ml

Q2 Write in ml (a) 1 litre (b) litre (c)  litre

**First Revision Exercise for Ch6 Measurement**

1 Write down the length of each line.

2 Draw horizontal lines of length: (a) 6cm (b) 8cm (c) 13cm

3 Write each of the following in metres and centimetres: (a) 500 cm (b) 900 cm (c) 550 cm (d) 720 cm

4 Write each of the following in centimetres: (a) 6 m (b) 10 m (c) 3 m 50 cm (d) 4 m 25 cm

5 Arrange each set in order, starting with the smallest. (a) 7m, 4m, 5m, 10m (b) 35 cm, 33 cm, 36 cm, 32 cm

6 Write the following in kilogrammes and grammes: (a) 6 000g (b) 9 000g (c) 7 500g (d) 9 200g

7 Write each of the following in grammes: (a) 3kg (b) 4kg (c) 8kg 500g (d) 10kg 300g

8 Write the volume of liquid in each jug in litres.



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml

**Second Revision Exercise for Ch6 Measurement**

1 Write down the length of each line.

2 Draw horizontal lines of length: (a) 4cm (b) 6cm (c) 11cm

3 Write each of the following in metres and centimetres: (a) 300 cm (b) 700 cm (c) 350 cm (d) 520 cm

4 Write each of the following in centimetres: (a) 4 m (b) 8 m (c) 1 m 50 cm (d) 2 m 25 cm

5 Arrange each set in order, starting with the smallest. (a) 5m, 2m, 3m, 8m (b) 15 cm, 13 cm, 16 cm, 12 cm

6 Write the following in kilogrammes and grammes: (a) 2 000g (b) 5 000g (c) 3 500g (d) 5 200g

7 Write each of the following in grammes: (a) 1kg (b) 2kg (c) 6kg 500g (d) 8kg 300g

8 Write the volume of liquid in each jug in litres.



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml



litre

litre

litre

1 litre

1 000 ml

750 ml

500 ml

250 ml

**S2 Green Ch 9 Time Homework**

**Homework Exercise 9•1 12 Hour Clock**

Q1 Write in words the times shown on these clocks.

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | (b) | (c) | (d) |

|  |  |  |
| --- | --- | --- |
| (e)  7:15 | (f)    4:20 | (g)  11:50 |

Q2 Draw the display of a digital clock showing these times:

(a) ten past three (b) quarter to ten (c) half past nine

**Homework Exercise 9•2 a.m. and p.m.**

Q1 Write these times using am or pm

(a) half past three in the afternoon (b) twenty to five in the morning (c) midnight

(d) twenty-five past eight in the evening (e) ten to one in the afternoon

(f) quarter past nine in the morning.

**Homework Exercise 9.3 24-Hour Clock**

Q1 Write these times in 24-hour clock.

(a) 3:15pm (b) 8:30am (c) 11:35am (d) 12pm (e) 2:30pm (f) 9:40pm

(g) 5:35am (h) 11:35pm

Q2 David is setting his digital alarm clock for 6:25am. Which one of these is the correct setting? (a) 16:25 (b) 0625 (c) 1825

Q3 Liann must be in Glasgow by 4:30pm. The train she is on arrives in Glasgow at 1650. Will she be on time?

**Homework Exercise 9.4 Timing**

Q1 John and Steven run 60m in a race. John took 15.8 seconds and Steven took 16.5 seconds. Who was faster?

Q2 In a cycle time trail, cyclists compete against each other. Put their times in order, quickest first.

|  |  |  |  |
| --- | --- | --- | --- |
| Matthew 25.06s | Mark 23.7s | Reece 24.8s | James 24.91s |

Q3 Four girls ran a 200m race. Their times are shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| Jennifer 57.8s | Louise 59.7s | Emily 58.1s | Caitlin 58.5s |

1. Who won the race? (b) Who was second? (c) Who was last?

**Homework Exercise 9.5 Calculating Time Intervals**

Q1 Calculate the length of time from: a) 8am to 9:35am (b) 11:45am to 1:20pm

(c) 5:35pm to 10:25pm (d) 3:55pm to 8:05pm (e) 6:30pm to 8:55pm

Q2 Calculate the length of time from: a) 0940 to 1120 (b) 1355 to 1645

(c) 1041 to 1059 (d) 2035 to 2205 (e) 1625 to 1855

**First Revision Exercise for Chapter Time**

1 Write the times shown on these clocks in words:

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

2 Draw the display of a digital clock showing   
 (a) quarter to eleven. (b) twenty past two. (c) five to ten. (d) twenty five past three.

3 Write these times using a.m. or p.m.   
 (a) five past four in the afternoon. (b) quarter past six in the morning. (c) noon

4 Write these times in 24-hour clock.

(a) 5:20pm (b) 9:15am (c) 7:40pm (d) 3:55pm (e) 11:25am (f) 12am  
5 A train left Edinburgh at 1600. and arrived in Inverness at 1920. How long did

the journey take?

6 A film started at 1:15pm and finished at 3:55pm. How long did the film last?

7 Four boys ran a 400m race. Their times are shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| John 57.6s | David 57.3s | Roy 58.2s | Jordan 58.9s |

1. Who won the race? (b) Who was second? (c) Who was last?

**Second Revision Exercise for Chapter Time**

1 Write the times shown on these clocks in words:

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

2 Draw the display of a digital clock showing   
 (a) five past twelve. (b) twenty to four. (c) ten to nine. (d) twenty five to one.

3 Write these times using a.m. or p.m.   
 (a) half past eight in the evening (b) ten past two in the afternoon.

(c) quarter to ten in the morning.

4 Write these times in 24-hour clock.

(a) 11:15am (b) 1:30pm (c) 7:20pm (d) 5:45am (e) 10:35am (f) 12pm  
5 A train left Edinburgh at 0800 and arrived in Inverness at 1145. How long did

the journey take?

6 A film started at 6.35pm and finished at 8:45pm. How long did the film last?

7 Four girls ran a 100m race. Their times are shown below.

|  |  |  |  |
| --- | --- | --- | --- |
| Lynn 21.3s | Megan 22.7s | Lucy 21.5s | Lori 20.1s |

1. Who won the race? (b) Who was second? (c) Who was last?

**S2 Green Ch10 Perimeter and Area Homework**

**Homework Exercise 10•1 Perimeter**

Q1 Calculate the perimeter of the following shapes

11cm cm

7cm cm

|  |  |  |  |
| --- | --- | --- | --- |
| (a)  3cm cm | (b)  2cm cm  3cm cm  5cm cm | (c)  10cm cm  1cm cm  5cm cm | (d)  3cm cm  4cm cm  5cm cm  15cm cm |

**Homework Exercise 10•2 Area**

Q1 Calculate the area of each rectangle

**a) b) c)**

6cm cm

4cm cm

3cm cm

12cm cm

4cm cm

2cm cm

(d)

5cm cm

8cm cm

**Homework Exercise 10•3 Areas of more complex shapes**

Q1 Find the area of each shape.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

**Homework Exercise 10•4 Area of a right angles triangle**

Q1 Calculate the area of each triangle.

5cm cm

(a) (b) (c)

5cm cm

2cm cm

6cm cm

10cm cm

7cm cm

(d) (e)

12cm cm

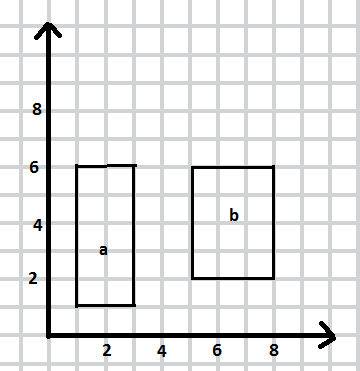
9cm cm

5cm cm

2cm cm

**Homework Exercise 10•5 Area Problems**

Q1 Calculate the areas of these shapes.



Q2 A school is changing its garden area. Calculate the area of each section.

3m cm

Basketball

Court

2m cm

Shrubs

8m cm

6m cm

**Homework Exercise 10•6 Areas of composite shapes**

Q1 Calculate the total area of each shape.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

**First Revision Exercise for Chapter Perimeter and Area**

Q1 Calculate the perimeter of the following shapes

|  |  |  |  |
| --- | --- | --- | --- |
| (a)  10cm cm  15cm cm | (b)  6cm cm  5cm cm  9cm cm | (c)  11cm cm  13cm cm  20cm cm | (d)  8cm cm  7cm cm  9cm cm  20cm cm |

14cm cm

Q2 Calculate the area of each rectangle

**a) b) c)**

8cm cm

3cm cm

4cm cm

9cm cm

3cm cm

3cm cm

Q3 Calculate the area of each triangle.

6cm cm

(a) (b) (c)

5cm cm

4cm cm

8cm cm

12cm cm

5cm cm

Q4 Find the area of each shape.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

Q5 A school is changing its garden area. Calculate the area of each section.

2m cm

Basketball

Court

3m cm

Shrubs

10m cm

5m cm

Q6 Calculate the total area of each shape.

|  |  |  |
| --- | --- | --- |
| (a) | (b) | (c) |

**S2 Green Ch 11 Information Handling**

**Homework Exercise 11•1 Review**

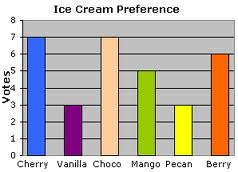
|  |  |
| --- | --- |
| Class | Girls |
| 1C1  1C2  1S1  1S2  1T1  1C2 | 11  12  12  14  15  10 |

Q1 Draw a bar graph to show the number of girls in S1 at Glensnoggle Academy.

1. Which class had the most girls?
2. Which class had the least number of girls?

Q2 Use the bar graph to answer the following questions.

1. Which is the most popular ice cream flavour?
2. Which is the least popular?
3. How many people were asked altogether?



**Homework Exercise 11.2 Line Graphs**

**Homework Exercise 11.3 Pie Charts**

**Homework Exercise 11.4 Scatter Graphs**

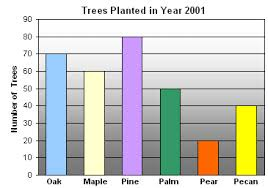
**First Revision Exercise for Chapter Information Handling**

|  |  |
| --- | --- |
| Class | Girls |
| 1C1  1C2  1S1  1S2  1T1  1C2 | 9  12  11  10  8  10 |

Q1 Draw a bar graph to show the number of girls in S1 at Glensnoggle Academy.

1. Which class had the most boys?
2. Which class had the least number of boys?

Q2 Use the bar graph to answer the following questions.

1. Name the type of tree that was planted the most.
2. Name the type of tree that was planted the least.
3. How many trees were planted altogether? 

**S2 Green Ch12 Number Patterns and Formulae Homework**

**Homework Exercise 12.1 Sequences**

Q1 For each of these starting numbers and rule, write the first six numbers in the sequence.

|  |  |  |
| --- | --- | --- |
|  | Start number | Rule for the next number |
| (a) | 3 | Add 4 |
| (b) | 35 | Subtract 2 |
| (c) | 1 | Add 15 |
| (d) | 850 | Subtract 100 |

Q2 Write the first 10 numbers in each of the sequences:

1. 10, 20, 30… (b) 320, 310, 300…. (c) 24, 28, 32…

**Homework Exercise 12.2 Constructing formulae**

Q1 Legs on a Cat

![](data:None;base64,) ![](data:None;base64,)![](data:None;base64,) ![](data:None;base64,)![](data:None;base64,)![](data:None;base64,)

1. Draw the next pattern in the sequence.

|  |  |
| --- | --- |
| Number of cats | Number of legs |
| 1  2  3  4 |  |

1. Copy and complete the table.
2. Copy and complete the formula:

The number legs is ….. times the number of cats.

**Homework Exercise 12.3 Formulae from matchstick patterns**

Q1 For each sequence of matchstick shapes:

* Draw the next pattern in the sequence
* Make a table
* Find the increase in the number of matchsticks each time
* Write a formula that starts: The number of matchsticks is…
* Use the formula to find the number of maches in the 10th pattern.

|  |  |
| --- | --- |
| (a) | (b) |

**First Revision Exercise for Chapter 12 Number Patterns and Formulae**

Q1 For each of these starting numbers and rule, write the first six numbers in the sequence.

|  |  |  |
| --- | --- | --- |
|  | Start number | Rule for the next number |
| (a) | 2 | Add 5 |
| (b) | 58 | Subtract 4 |
| (c) | 3 | Add 12 |
| (d) | 650 | Subtract 50 |

Q2 Write the first 10 numbers in each of the sequences:

1. 5, 8, 11… (b) 10, 30, 50…. (c) 46, 43, 40…

Q3 Legs on a Dog

![](data:None;base64,) ![](data:None;base64,)![](data:None;base64,) ![](data:None;base64,)![](data:None;base64,)![](data:None;base64,)

1. Draw the next pattern in the sequence.

|  |  |
| --- | --- |
| Number of cats | Number of legs |
| 1  2  3  4 |  |

1. Copy and complete the table.
2. Copy and complete the formula:

The number legs is ….. times the number of dogs.

Q4 For the sequence below:

* Draw the next pattern in the sequence
* Make a table
* Find the increase in the number of matchsticks each time
* Write a formula that starts: The number of matchsticks is…
* Use the formula to find the number of maches in the 10th pattern

|  |
| --- |
| (a) |

**S2 Green Ch13 2D Shape Homework**

**Homework Exercise 13.1 Units of length**

Q1 Which units would you use to measure the length of a:

1. table (b) room (c) journey (d) person (e) pencil

Q2 The diagrams show sketches of house plans. Draw each one accurately using the measurements shown.

1. (b)

2cm

6.3cm

1.2cm

4cm

7.5cm

2cm

3cm

1cm

5cm

4cm

**Homework Exercise 13.2 Triangles**

Q1 Name each type of triangle.

|  |  |  |
| --- | --- | --- |
| (a)  [http://cimg1.ck12.org/datastreams/f-d%3Af6eae2d13ad448ef901b97da5872fda58868e6c534623ebeb383fad5%2BIMAGE%2BIMAGE.1](http://www.google.co.uk/url?sa=i&rct=j&q=equilateral%20triangle&source=images&cd=&cad=rja&uact=8&docid=sgf_xfhrMgyGpM&tbnid=YS3C5aXRu0S8XM:&ved=0CAUQjRw&url=http://www.ck12.org/user:YmdyZWVyQG1pdGFjYWRlbXkub3Jn/section/Classifying-Triangles-%3A%3Aof%3A%3A-Geometric-Figures/&ei=DQusU_aNH-Oo0wWd5YH4DA&bvm=bv.69837884,d.ZWU&psig=AFQjCNGGJyNEaAr3onSctyDIPTp517HvMQ&ust=1403870318752073) | (b) | (c)  [http://t0.gstatic.com/images?q=tbn:ANd9GcRdSKmsbMLnqj6eEXBHxd5lLdxc_nrKDmUL8GBx3M-ebrWrzbGC](http://www.google.co.uk/url?sa=i&rct=j&q=scalene+triangle&source=images&cd=&cad=rja&uact=8&docid=FpbOmRaEO7_0NM&tbnid=L4PQAwkG0d4mWM:&ved=0CAUQjRw&url=http://www.esolhelp.com/picture-dictionary-geometric-shapes.html&ei=aRmsU5fWIYrK0QXu54DIAQ&bvm=bv.69837884,d.d2k&psig=AFQjCNEeBhbSmpMVNR8Ng32s9oxB86NIOg&ust=1403874006639784) |
| (d) | (e)  [http://jwilson.coe.uga.edu/EMAT6680/Masson/6690/Instructional_Unit_plan/Review/graphs/image18.gif](http://www.google.co.uk/url?sa=i&rct=j&q=scalene+triangle&source=images&cd=&cad=rja&uact=8&docid=yjy8wVXrkN-yyM&tbnid=1FO7HLp4OQftMM:&ved=0CAUQjRw&url=http://jwilson.coe.uga.edu/EMAT6680/Masson/6690/Instructional_Unit_plan/Review/review_of_triangles.html&ei=-hmsU66TFIG20QWUrYCoCQ&bvm=bv.69837884,d.d2k&psig=AFQjCNEeBhbSmpMVNR8Ng32s9oxB86NIOg&ust=1403874006639784) | (f) |

**Homework Exercise 13.3 Terminology**

**Homework Exercise 13.4 Pentagons and Hexagons**

Q1 Name each shape using: Rectangle, square, triangle, pentagon, hexagon

(a) (b) (c) (d)

**Homework Exercise 13.5 The Circle**

Q1 For each circle, write the length of the diameter.

(a) (b) (c) (d)

20.4cm cm

4.5m cm

11mm cm

3cm cm

Q2 For each circle, write the length of the radius.

(a) (b) (c) (d)

160cm cm

40m cm

9mm cm

16cm cm

Q3 Find the distance from A to B

(a) (b)

B

A

5cm

2cm

A

B

**Homework Exercise 13.6 Drawing Circles**

Q1 Draw a circle with radius: (a) 3cm (b) 7cm (c) 5.5cm

Q2 Draw a circle with diameter: (a) 10cm (b) 16cm (c) 9cm

**First Revision Exercise for Chapter 13 Shape**

Q1 Which units would you use to measure the length of a:

1. table (b) room (c) journey (d) person (e) pencil

Q2 The diagrams show sketches of house plans. Draw each one accurately using the measurements shown.

1. (b)

2cm

6.3cm

1.2cm

4cm

7.5cm

2cm

3cm

1cm

5cm

4cm

Q1 Name each shape using: Rectangle, square, triangle, pentagon, hexagon

(a) (b) (c) (d)

Q1 For each circle, write the length of the diameter.

(a) (b) (c) (d)

22 cm

6.5m cm

12mm cm

9cm cm

Q2 For each circle, write the length of the radius.

(a) (b) (c) (d)

400 cm

88m cm

30mm cm

100 cm

Q3 Find the distance from A to B

(a) (b)

B

A

10cm

3cm

A

B

Q1 Draw a circle with radius: (a) 4cm (b) 3.5cm (c) 5cm

Q2 Draw a circle with diameter: (a) 6cm (b) 18cm (c) 13cm

**S2 Green Ch14 Information Handling 2 Homework**

**Homework Exercise 14.1 Frequency Tables**

**Draw a frequency table**

**Homework Exercise 14.2 Displaying Information**

**Homework Exercise 14.3 Interpreting Bar Charts**

**Homework Exercise 14.4 The Mean**

**First Revision Exercise for Chapter 14 Information Handling 2**

**S2 Green Ch15 3D Shape 2 Homework**

**Homework Exercise 15.1 Vertices, edges and faces**

**Homework Exercise 15.2 Skeleton Models**

**Homework Exercise 15.3 Nets – building 3D shapes**

**Homework Exercise 15.4 Diagonals**

**Homework Exercise 15.5 Angles**

**First Revision Exercise for Chapter 14 Information Handling 2**