Name	
Form	
Teacher	

Maths Homework Booklet Year 8 Summer 2 Set 1,2,3

Topic	Score achieved	Sparx %
1: Revision	/10	%
2: Revision	/10	%
3: Lines of Symmetry	/6	%
4: Pictograms	/16	%
5: Bar Charts	/14	%
6: Mean from frequency table	/18	%
7: Estimate of the mean from frequency table	/12	%



- 1 Expand and simplify 5(4x+9)+4(7x+1)
- 2 Calculate $3843 \div 7$
- 3 Calculate $24000 \div 20$
- 4 Complete : $6 l = \underline{} cl$
- 5 Calculate 8.3×7.5
- 6 Round 6.352 correct to 1 decimal place
- 7 Solve 3(5x-7) = -6
- 8 Work out $10 \times (3+4) \times 5$
- 9 Evaluate 3³
- 10 Calculate $\frac{4}{5}$ of £85

Sparx – Homework Answers		



- 1 Expand and simplify 5(6x+7)+2(5x+1)
- 2 Calculate $5949 \div 9$
- 3 Calculate $300 \div 50$
- 4 Complete : $60 \, ml = ___ cl$
- 5 Calculate 5.2×3.1
- 6 Round 0.6323 correct to 2 decimal places
- 7 Solve 4(5x+2) = 128
- 8 Work out $6 \times 5 + 2 \times 6$
- 9 Evaluate 4^2
- 10 Calculate $\frac{1}{6}$ of £144

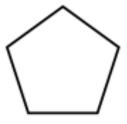
Sparx – Homework Answers		



Here is an equilateral triangle. Draw any lines of symmetry on the triangle



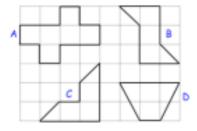
Here is a regular pentagon. Draw any lines of symmetry on the pentagon.



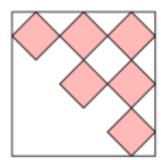
Here is a regular hexagon. Draw any lines of symmetry on the hexagon.



Which two shapes have a line of symmetry?



This square tile has a symmetrical pattern. Draw the line of symmetry.



Sparx – Homework Answers		



Question 4: Draw a pictogram for each of the following tables.
Use a suitable key.

(a)

Sport	Frequency
Badminton	20
Judo	15
Squash	25
Table Tennis	5

(b)

· /		
Day	Cars sold	
Monday	6	
Tuesday	8	
Wednesday	3	
Thursday	10	
Friday	7	

(c)

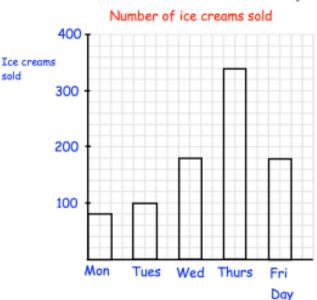
Position	Players
Goalkeepers	3
Defenders	18
Midfielders	16
Forwards	14

Sparx – Homework Answers		



Question 4: The bar chart shows information about the number of ice creams sold in a shop.

- (a) How many ice creams were sold on Tuesday?
- (b) On which day were the least number of ice creams sold?
- (c) Why do you think so many ice creams were sold on Thursday?
- (d) On which two days were the same number of ice creams sold?
- (e) How many ice creams were sold in total?

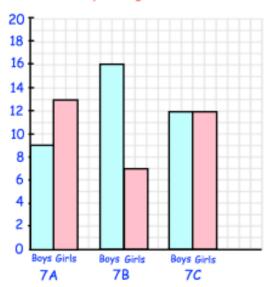


Question 5: The dual bar chart shows information about the number of boys and girls in three tutor groups, 7A, 7B and 7C.

Frequency

- (a) How many boys are there in 7B?
- (b) Which tutor group has 12 girls?
- (c) Which tutor group has more girls than boys?
- (d) Which tutor group has the same number of boys and girls?
- (e) Which tutor group has the most students?
- (f) How many more girls than boys are there in 7A?
- (g) How many boys are there in Year 7?
- (h) How many students are there in Year 7?
- Are there more boys or girls in Year 7?

Number of boys and girls in 7A, 7B and 7C



Sparx – Homework Answers		



Question 1: Work out the mean for each of these frequency tables. You may not use a calculator

(a)

Age	Frequency
5	2
. 6	2
7	5
8	1

(b)

Number of phones	Frequency
0	1
1	3
2	2
3	0
4	4
5	0

(c)

Number of pets	Frequency
0	13
. 1	28
2	50
3	9

(d)

Money Withdrawn	Frequency
£10	16
£20	19
£30	4
£40	3
£50	6
£60	2

(e)

Number of bedrooms	Frequency
1	34
. 2	275
3	512
4	179

(f)

Level	Frequency
3	1
4	9
5	7
6	2
7	1

Sparx – Homework Answers			



Question 1: Work out an estimate of the mean for each of these frequency tables.

(a)

Length	Frequency	Midpoint	
0 < L ≤ 10	6		
10 < L ≤ 20	7		
20 < L ≤ 30	5		
30 < L ≤ 40	1		
40 < L ≤ 50	1		

(b)

Cost	Frequency	Midpoint	
0 < c ≤ 4	2		
4 < c ≤ 8	3		
8 < c <u>s</u> 12	5		
12 < c ≤ 16	12		
16 < c ≤ 20	3		

(c)

Length	Frequency	Midpoint	
0<†≤5	11		
5 < t ≤ 10	37		
10 < † ≤ 15	43		
15 < † ≤ 20	9		

(d)

Mass	Frequency	Midpoint	
50 < m ≤ 55	3		
55 < m ≤ 60	5		
60 < m ≤ 65	10		
65 < m ≤ 70	12		
70 < m ≤ 75	10		

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