

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 8 Summer 2

Set 4,5

Topic	Score achieved	Sparx %
1: Revision	/10	%
2: Revision	/10	%
3: Lines of Symmetry	/9	%
4: Pictograms	/12	%
5: Bar Charts	/15	%
6: Mean from frequency table	/9	%
7: Estimate of the mean from frequency table	/12	%



Week 1

- 1 What is the time 30 minutes before 10.20?
- 2 Work out $3\frac{4}{9} - 1\frac{2}{5}$
- 3 Solve $x + 8 = 16$
- 4 Work out 38×6
- 5 What is 30% of £380 ?
- 6 Work out 6.9×100
- 7 Complete using $=$, $<$ *or* $>$ $580\text{ cm} ? 5.9\text{ m}$
- 8 Write in ascending order: 0.14, 0.43, 0.3
- 9 List the square numbers between 22 and 45
- 10 Work out $\frac{4}{9} \times \frac{5}{8}$

Sparx – Homework Answers



Week 2

- 1 What is the time 50 minutes before 4.35?
- 2 Work out $3\frac{1}{4} + 1\frac{7}{9}$
- 3 Solve $x + 10 = 20$
- 4 Work out 29×9
- 5 What is 35% of £400 ?
- 6 Work out 0.066×1000
- 7 Complete using $=$, $<$ *or* $>$ $850\text{ cm} ? 8.6\text{ m}$
- 8 Write in ascending order: 0.66, 0.49, 0.159
- 9 List the first 5 multiples of 6
- 10 Work out $\frac{8}{9} \times \frac{3}{4}$

Sparx – Homework Answers



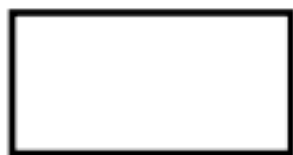
Week 3

Question 1: Draw all the lines of symmetry on each the shapes below

(a)



(b)



(c)



(d)



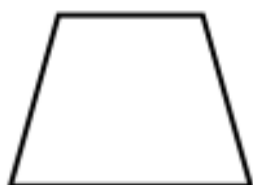
(e)



(f)



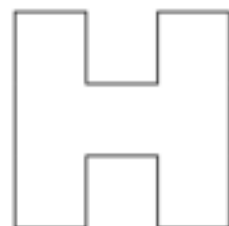
(g)



(h)



(i)



Sparx – Homework Answers



Week 4

Question 1: James is revising for an exam.

The pictogram shows how many hours he spent revising over four days.

Key ○ represents 2 hours

- (a) How many hours did James spend revising on Monday?
- (b) How many hours did James spend revising on Wednesday?
- (c) On which day did James spend 6 hours revising?
- (d) How many hours did James spend revising in total?

Monday	○ ○
Tuesday	○ ○ ○
Wednesday	○ ◐
Thursday	○ ○

Question 2: The pictogram shows how much money 4 friends raised for charity.

- (a) Who raised the most money for charity?
- (b) Who raised the least money for charity?
- (c) How much money did Dylan raise?
- (d) How much more did Ellie raise than Cara?
- (e) How much more did Ellie raise than Dylan?
- (f) How much money did the friends raise in total?

Ben	○ ○ ○ ○ ◐
Cara	○ ○
Dylan	○ ○ ◐
Ellie	○ ○ ○ ○ ○

Key ○ represents £10

Question 3: The pictogram shows the number of hours of sunshine in four cities for a day in May.

- (a) Which city had the most sunshine?
- (b) How many hours of sunshine did Swansea have?
- (c) How many more hours of sunshine did Paris have than London?

Paris	○ ○ ◐
Cork	○ ○ ○
London	○ ◐
Swansea	○ ○ ◐

Key ○ represents 4 hours

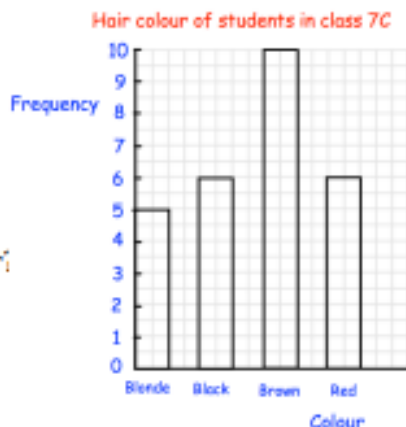
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Week 5

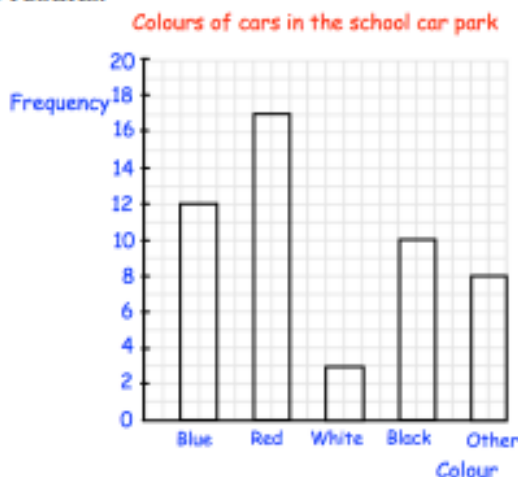
Question 1: The bar chart shows information about the hair colour of students in 7C.

- (a) What is the most common hair colour in 7C?
- (b) How many students had black hair?
- (c) What hair colour is the least popular in 7C?
- (d) How many more students had brown than red hair?
- (e) How many students are in 7C?



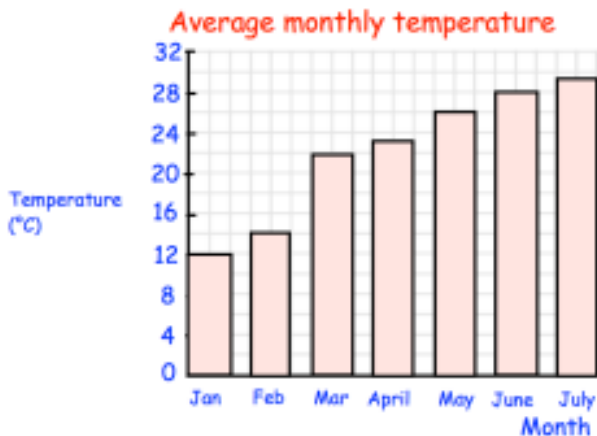
Question 2: Nicole recorded the colours of cars in a car park. She then drew a bar chart to show the results.

- (a) What is the most common colour of car?
- (b) How many cars were blue?
- (c) How many cars were white?
- (d) How many more cars were red than black?
- (e) Why do you think there is a bar called "other?"
- (f) How many cars were in the car park?



Question 3: The bar chart shows information about the average temperature on an island.

- (a) What was the average temperature in March?
- (b) Which month had an average temperature of 26°C ?
- (c) What is happening to the average temperatures between Jan and July?
- (d) Between which two months was there the greatest rise in temperature?



Sparx – Homework Answers



Week 6

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

Sparx – Homework Answers



Week7

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

(a)

Length	Frequency	Midpoint	
$0 < L \leq 10$	6		
$10 < L \leq 20$	7		
$20 < L \leq 30$	5		
$30 < L \leq 40$	1		
$40 < L \leq 50$	1		

(b)

Cost	Frequency	Midpoint	
$0 < c \leq 4$	2		
$4 < c \leq 8$	3		
$8 < c \leq 12$	5		
$12 < c \leq 16$	12		
$16 < c \leq 20$	3		

(c)

Length	Frequency	Midpoint	
$0 < t \leq 5$	11		
$5 < t \leq 10$	37		
$10 < t \leq 15$	43		
$15 < t \leq 20$	9		

(d)

Mass	Frequency	Midpoint	
$50 < m \leq 55$	3		
$55 < m \leq 60$	5		
$60 < m \leq 65$	10		
$65 < m \leq 70$	12		
$70 < m \leq 75$	10		

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