

Mixed Exercise – 2 (Friday Group)

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1.

(a) Write the number **seventeen thousand, two hundred and fifty-two** in figures.

.....  
(1)

(b) Write the number 5367 correct to the nearest hundred.

.....  
(1)

(c) Write down the value of the 4 in the number 274 863

.....  
(1)

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2.

Here are the first five terms of a number sequence.

126      122      118      114      110

(a) Write down the next two terms of the number sequence.

..... , ....  
(1)

(b) Explain how you found your answer.

.....  
(1)

The 20th term of the number sequence is 50

(c) Write down the 21st term of the number sequence.

.....  
(1)

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3.

Some bulbs were planted in October.

The ticks in the table shows the months in which each type of bulb grows into flowers.

		Month					
		Jan	Feb	March	April	May	June
Type of bulb	Allium					✓	✓
	Crocus	✓	✓				
	Daffodil		✓	✓	✓		
	Iris	✓	✓				
	Tulip				✓	✓	

(a) In which months do tulips flower?

.....  
(1)

(b) Which type of bulb flowers in March?

.....  
(1)

(c) In which month do most types of bulb flower?

.....  
(1)

(d) Which type of bulb flowers in the same months as the iris?

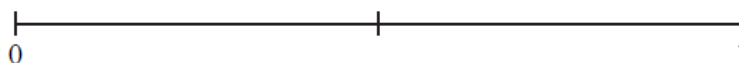
.....  
(1)

Ben puts one of each type of these bulbs in a bag.  
He takes a bulb from the bag without looking.

(e) (i) Write down the probability that he will take a crocus bulb.

.....

(ii) On the probability scale, mark with a cross (×) the probability that he will take a bulb which flowers in February.



(2)

4.

**Cat facts**

- 40% of people named cats as their favourite pet.
- 98% of women said they would rather go out with someone who liked cats.
- About  $7\frac{1}{2}$  million families have a cat.
- $\frac{1}{4}$  of cat owners keep a cat because cats are easy to look after.



- (a) Write 40% as a fraction.  
Give your fraction in its simplest form.

.....  
(2)

- (b) Write 98% as a decimal.

.....  
(1)

- (c) Write  $7\frac{1}{2}$  million in figures.

.....  
(1)

- (d) Write  $\frac{1}{4}$  as a percentage.

..... %  
(1)

- (e) What percentage of people did **not** name cats as their favourite pet?

..... %  
(1)

5.

The table can be used to convert between Euros (€) and Pounds (£).

Euros (€)	Pounds (£)
0.10	0.08
0.20	0.16
0.50	0.40
1	0.80
2	1.60
3	2.40
4	3.20

(a) Change €3 to pounds.

£.....  
(1)

(b) Change €2.50 to pounds.

£.....  
(2)

(c) Change £1 to euros.

€.....  
(2)

6.

Jade made a train journey.  
Her train should have arrived at 14 40  
It arrived 1 hour 50 minutes late.

(a) At what time did her train arrive?

.....  
(1)

The railway company gave Jade some money back, because her train was late.  
The company used this rule to work out the amount of money.

Find $\frac{1}{4}$ of the ticket price
Then round <b>up</b> this answer to the next whole number of pounds

Jade's ticket price was £33.56

(b) (i) Work out  $\frac{1}{4}$  of £33.56

£.....

(ii) Round up your answer to part (i) to the next whole number of pounds.

£.....

(3)

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Question 7 is on the next page.

7.

The cost, in pounds, of hiring a car can be worked out using this rule.

Add 3 to the number of days' hire  
Multiply your answer by 10

(a) Work out the cost of hiring a car for 4 days.

£.....  
(2)

Bishen hired a car.  
The cost was £120

(b) Work out the number of days for which Bishen hired the car.

.....  
(2)

The cost of hiring a car for  $n$  days is  $C$  pounds.

(c) Write down a formula for  $C$  in terms of  $n$ .

.....  
(3)

8.

80 students each study one of three languages.

The two-way table shows some information about these students.

	French	German	Spanish	Total
Female	15			39
Male		17		41
Total	31	28		80

Complete the two-way table.

(Total 2 marks)

9.

(a) Simplify  $3p + 2q - p + 2q$

.....  
(2)

(b) Simplify  $3y^2 - y^2$

.....  
(1)

(c) Simplify  $5c + 7d - 2c - 3d$

.....  
(2)

(d) Simplify  $4p \times 2q$

.....  
(1)

10.

Work out an estimate for the value of  $\frac{637}{3.2 \times 9.8}$

.....  
**(Total 2 marks)**

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