



**Functional Skills – Mathematics
Entry 3
Assessment Paper**

Guide time 1hr – 1hr 30 mins



2794-003-1

THE FOLLOWING DETAILS MUST BE COMPLETED
Centre Name
Surname/Family Name
First Forename
Unique Learner Number (ULN) if known
Date of Birth
Date of Assessment
Candidate Signature

You need

- A pen (black or blue ink)
- A calculator
- Mathematics resource sheets (entry level 3)

Candidate instructions

- Do not open this paper until you are told to so
- Answer all questions
- Write your answers in the spaces provided in this assessment paper
- Show all your workings
- Show how you have checked your workings. Marks are available for this
- Cross through any work you do not want to be assessed
- If you need more space to complete your answer to any question, use additional sheets of paper and attach them to this assessment paper

Candidate guidance

- Pay attention to the marks available for each question; the questions with more marks should take longer to answer than those with fewer marks

	Marker use only
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Q7	
Q8	
Q9	
Total marks	
Pass mark	
Pass/did not achieve	

James gets a part time job in the pet shop to earn some extra money.

1 His first job is to weigh and price up the dog biscuits. The biscuits arrive in boxes that weigh 15kg. He needs to sort them into bags that take 1kg or $\frac{1}{2}$ kg.

(a) How many 1kg bags can he fill?

_____ (1 mark)

(b) How many $\frac{1}{2}$ kg bags can he fill?

_____ (1 mark)

(c) The shop keeper wants James to split the 15kg using at least three 1kg bags and at least ten $\frac{1}{2}$ kg bags. He can choose how he uses the rest of the box. Show one way he can do this.

Number of 1kg bags _____

Number of $\frac{1}{2}$ kg bags _____ (4 marks)

(d) The bags are priced at £2 for $\frac{1}{2}$ kg and £3 for 1kg. How much will your combination sell for? Show all your workings.

(4 marks)

(e) If the 15kg box costs £35, how much money does the store make by selling your combination of bags?

(2 marks)

Do not write
in this margin.
For Marker
use only

Total
marks

2 Look at the resource sheets for question 2a and b

Do not write
in this margin.
For Marker
use only

Next, James has to set up a tank for some new gold fish. The tank holds 150 litres of water and needs some chemicals added to make the water safe for fish. Remember to show your workings for this question.

- (a) Use the information on the resource sheet to find out how many ml of chemicals he needs to add to the tank.

(2 marks)

- (b) How many bottles will he need to open?

(3 marks)

- (c) The shop keeper wants to put in 5 fish for every 3 litres of water. How many fish can he put in the tank?

(4 marks)

**Total
marks**

--

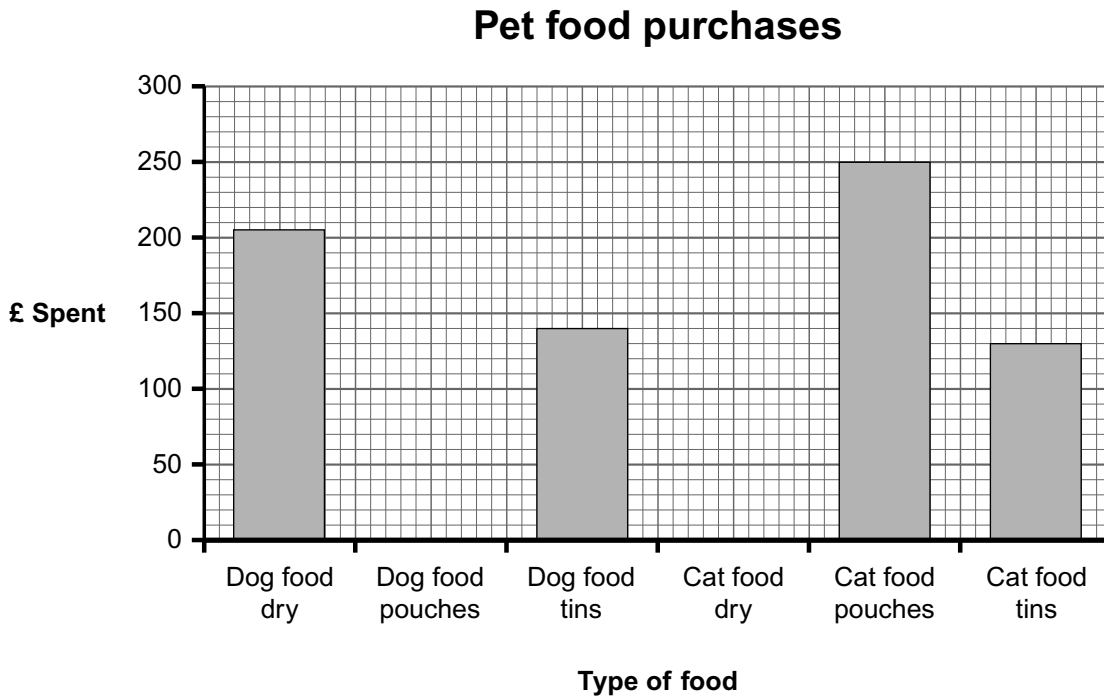
BLANK PAGE
(Questions continue overleaf)

3 Look at the resource sheets for question 3a.

The pet shop wants to make sure it carries the most popular types of food, so that it sells as much as possible.

The manager has collected information on which types of pet food their customers buy most often.

- (a) Use the results from the pet food survey (on the resource sheets) to complete the bar chart below.



(2 marks)

(b) Is more money spent on dog food or on cat food? Show your workings out.

(5 marks)

(c) Which was the most popular type of cat food bought?

(1 mark)

(d) The shop keeper decides he only wants to keep two different types of food for each animal. Which ones do you think he should choose?

(2 marks)

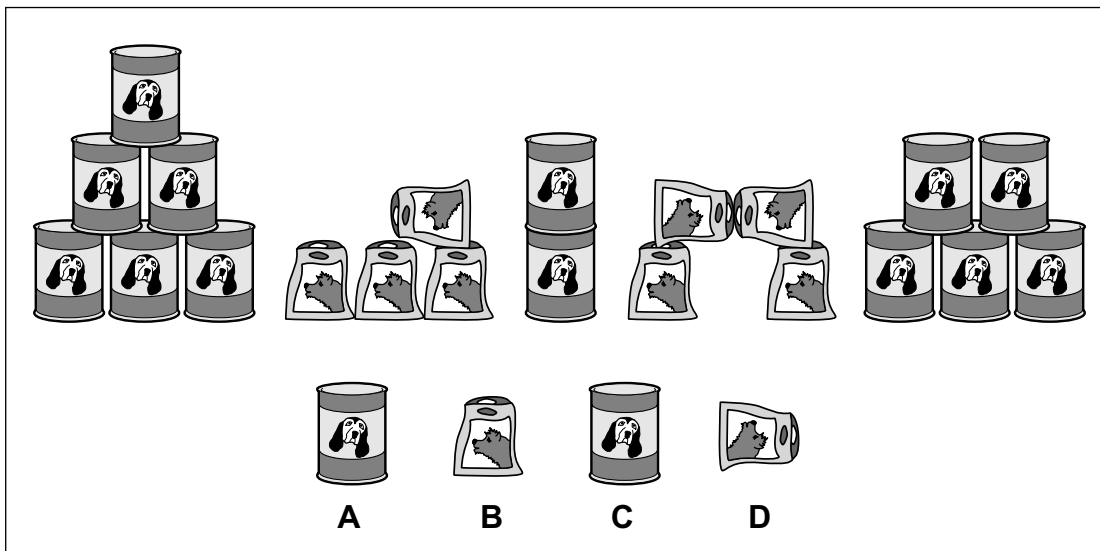
Do not write
in this margin.
For Marker
use only

Total
marks

- 4 The shopkeeper asks James to complete the window display so that it is symmetrical. He must use the same number of tins and pouches of dog food on each side of the window.

Do not write
in this margin.
For Marker
use only

This is what he has done so far



Add the four more objects (A, B, C and D) to finish the display. Mark on the picture where you would place the tins/pouches. You can draw the shapes or place the right letter. You must use each shape once.

(4 marks)

Total
marks

5 Look at the resource sheets for question 5

Asena wants to buy a puppy. She sees some adverts in the local paper. What is the difference in cost between the cheapest puppy and the most expensive puppy?

Remember to show your workings out.

(4 marks)

Total
marks

6 Look at the calendar below for question 6 a and b

Asena decides to buy the Labrador puppy. It is six weeks old when she sees it on the 23rd January

(a) What day of the week is this?

(1 mark)

(b) She can take it when it is eight weeks old. What date can she take the puppy?

(1 mark)

Total
marks

JANUARY 2010							FEBRUARY 2010							MARCH 2010						
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S
				1	2	3	1	2	3	4	5	6	7	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28	22	23	24	25	26	27	28
25	26	27	28	29	30	31								29	30	31				

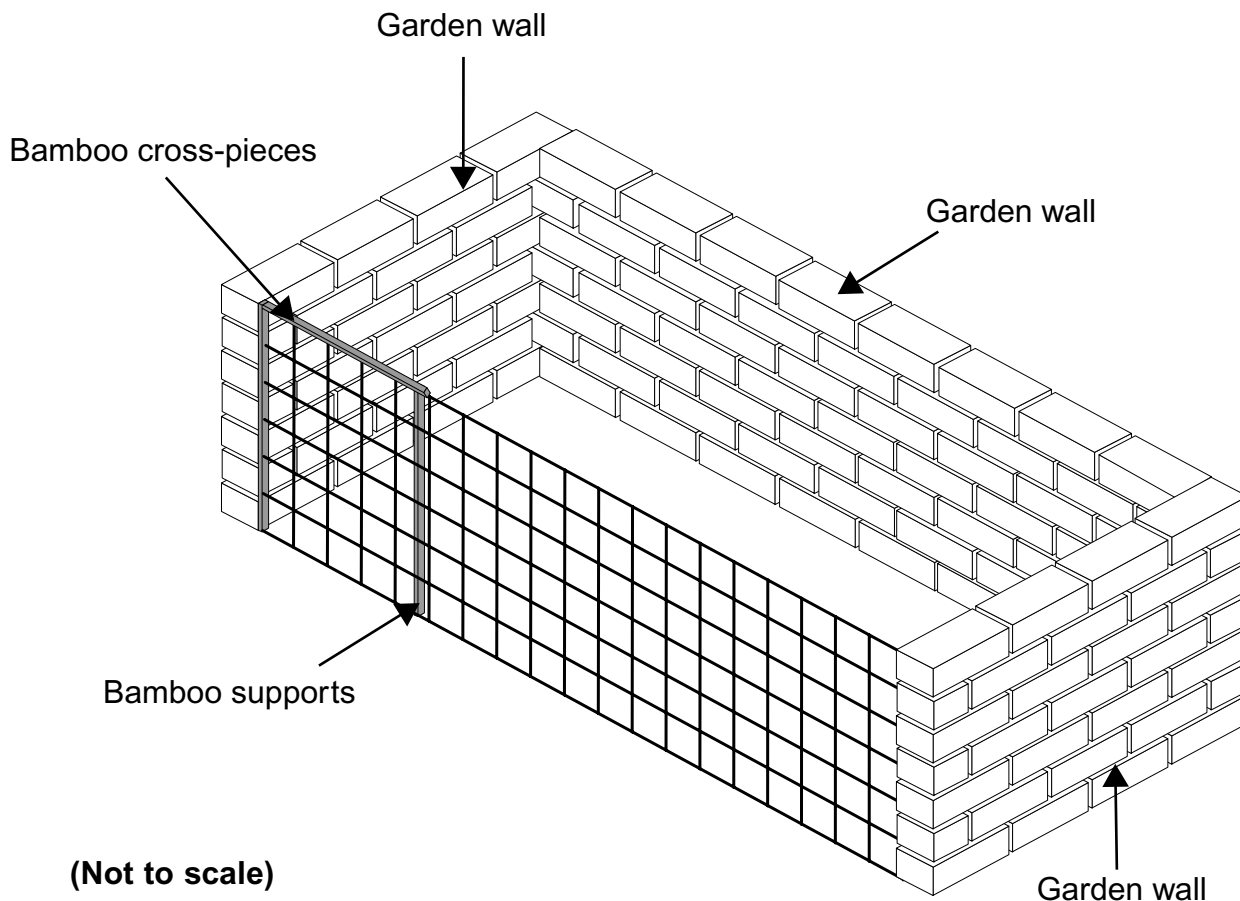
7 Look at the calendar above for question 7

The puppy needs an injection on the 30th March, how old will the puppy be then?

(2 marks)

Total
marks

8 Asena needs to build an exercise pen for her puppy. She has drawn a picture of how she wants the pen to look.



(Not to scale)

Remember to show all your workings and show you have checked your answers.

(a) She buys the 10m roll of wire mesh and will use all of it to build the pen between three walls in her garden. She decides to put bamboo supports at the beginning, the end and every 1m between. How many supports will she need for this?

(2 marks)

- (b) She also wants to put bamboo cross-pieces between the supports to stop the puppy bending down the wire as it grows bigger. How many will she need?

(1 mark)

- (c) The shop keeper tells her she will need to peg the wire down every 25cm. How many pegs will she need for each 1m of wire?

(1 mark)

- (d) How many pegs will she need altogether?

(3 marks)

- (e) **Look at the resource sheets for question 8e**

Round the prices to the nearest pound and work out an estimate for how much it will cost to build the pen. Remember to show how you checked your workings.

(6 marks)

Total
marks

9 The puppy has a feeding schedule

Do not write
in this margin.
For Marker
use only

Age	Less than 8 weeks	Less than 12 weeks	Less than 20 weeks	Less than 30 weeks	Less than 1 year
Weight of food per day (grams)	50	100	150	?	250
Number of meals per day	4	3	2	2	1

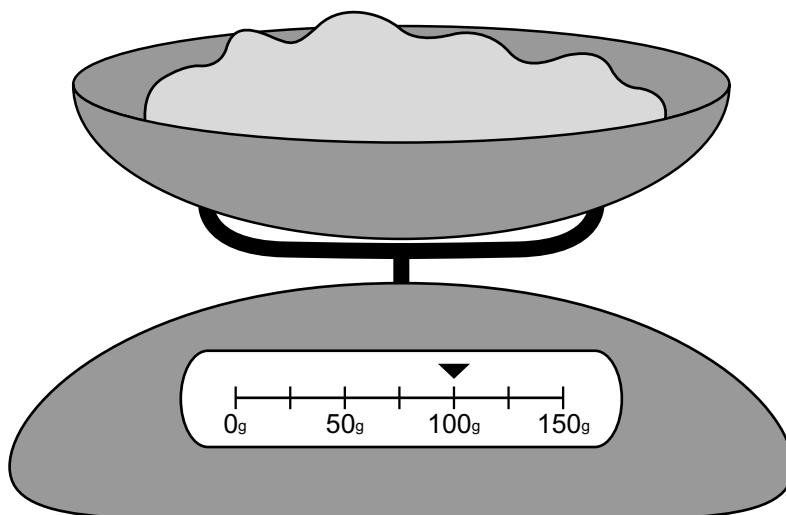
(a) What would you expect the weight of food to be for less than 30 weeks?

_____ (1 mark)

(b) How do you know this?

(1 mark)

(c) Asena weighs a cupful of food on the scales below. How much does it weigh?



_____ (1 mark)

(d) How many cups of food per day does she need to give the puppy when it is 10 weeks old?

_____ (1 mark)

(e) How many cups of food does she give the puppy when it is 10 months old? Show your workings.

_____ (4 marks)

Do not write
in this margin.
For Marker
use only

Total
marks

END OF ASSESSMENT

BLANK PAGE

BLANK PAGE

BLANK PAGE