

Introduction

You work with Dan at Beautiful Blooms Garden Centre. You work as assistants. The following tasks are about you and Dan and the jobs you do at work.

Task 1

(2 marks)

Dan is helping a customer who wants to use garden centre vouchers to buy some goods. The vouchers are on the next page.

The customer tells Dan he has £190 in vouchers.

a. Is this correct? Circle your answer.

1 mark

Yes

No

b. What should Dan tell the customer?

1 mark

Answer

Show any calculations in the box below.

Space for calculations



Task 2

(3 marks)

Your customer has £175 worth of vouchers. She wants to use them to buy a new pond pump.

The pump costs £200.

- a. How much money will the customer need to add to the vouchers to pay for the pump? 1 mark

Show your calculations in the space below.

1 mark

- b. Show how she could pay using the money your Assessor has given you. 1 mark

Space for calculations

a. Answer

Task 3**(5 marks)**

Look at the check list below. It shows the money which must be in the till.

a. Fill in the check list to show the values for any extra coins and notes you **need**.
3 marks

b. Work out the total of all the money which **must be in the till**.

1 mark

c. Check your answers.

1 mark

Show all your calculations on the next page.

Money which must be in the till	Have (value)	Need (value)
1p coins 50p	39p	
2p coins 50p	12p	
5p coins £1.00	30p	
10p coins £1.00	40p	
20p coins £2.00	80p	
50p coins £10.00	£3.50	
£1 coins £20	£17.00	
£2 coins £10	£6.00	
£5 notes £25	£10.00	
£10 notes £30	£10.00	
Total:		

Example

Money which must be in the till	Have (value)	Need (value)
1p coins 50p	20p	30p

Space for calculations

Sample

Task 4

(4 marks)

The garden centre is selling two new planters and a plant stand.

- a. Say how the two planters are different. Think about 2D and 3D properties. 3 marks

Put your answers on the next page.

- b. Which of the following describe the flat surface of the plant stand?

1 mark

Tick your answer.

Cylinder

Circle

Disc

Cone



Answers

Planter 1

Planter 2

Task 5

(6 marks)

Look at the picture on the next page.

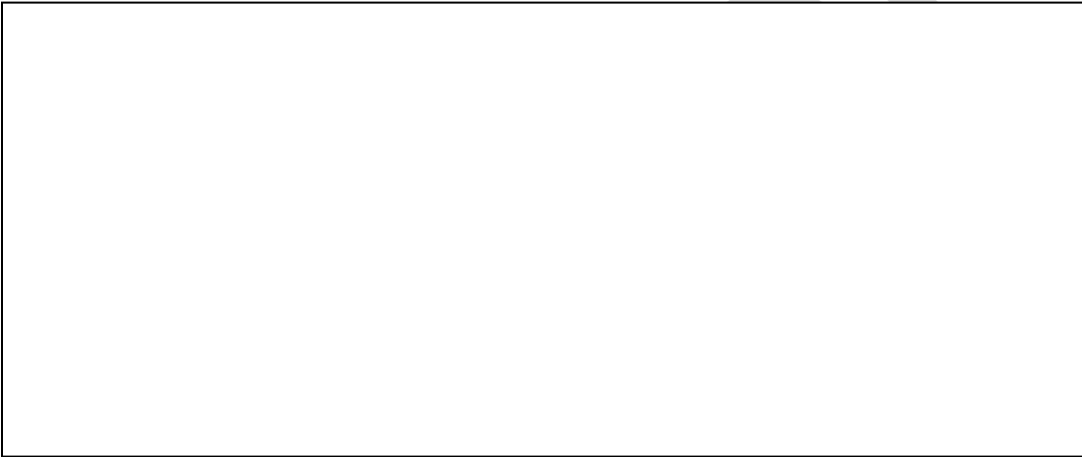
Dan has been told to display these plants on the shelves.

- a. Which is the best way for Dan to do this? Draw arrows to show which shelves the plants could be displayed on.

3 marks

- b. Give two reasons for your choices. Use the space below for your answer.

2 marks

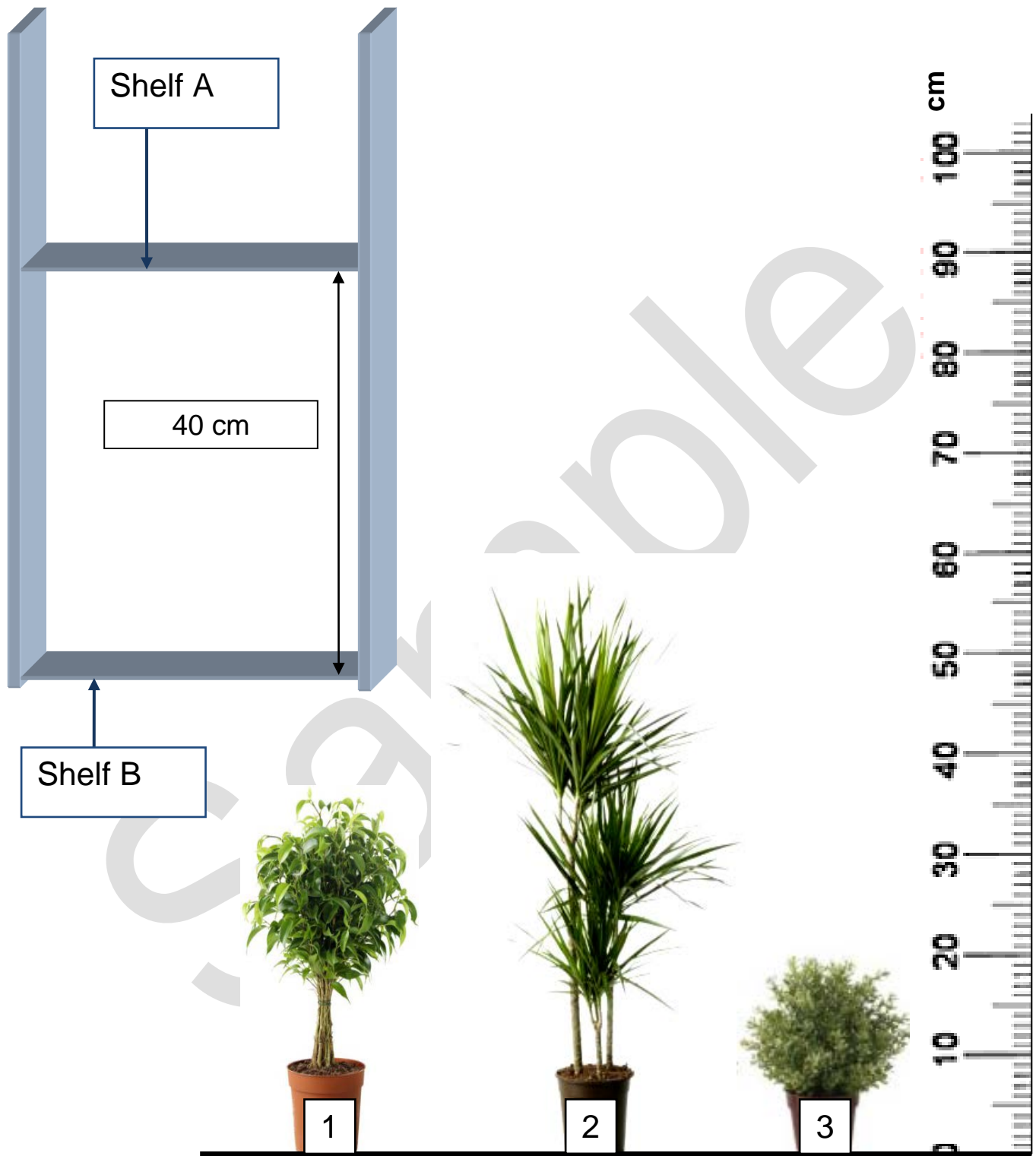


- c. What is the number pattern used on the height scale? Use the space below for your answer.

1 mark



Task 5



Images from:

<http://www.ikea.com/gb/en/catalog/categories/departments/decoration/10768/>, <http://thinkmetric.org.uk/length.html>

Task 6**(5 marks)**

Look at the table below about bird feeders.


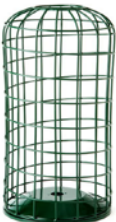

A customer has £5 to spend on a bird feeder. She wants one which will hold at least 200 grams of nuts.

a. Which ones could she buy? Put your answers on the next page.

2 marks

b. Give three reasons for your answers. Use the space on the next page.

3 marks

Bird Feeders Information		
Sizes	Price	Capacity
	Large £4	500 grams
	Medium £3	250 grams
	Small £2	100 grams

Images from <http://shopping.rspb.org.uk/c/BirdFeeders.htm>

6a.

6b.

Task 7**(8 marks)**

Bags of Wild Bird Peanuts are sold in different weights.

The table shows sales of the peanuts over 1 year.

Wild Bird Peanuts					
Weight	Sales January to March	Sales April to June	Sales July to September	Sales October to December	Total bags sold
2 kg bag	25	19	9	35	
1 kg bag	50	22	10	70	
500g bag	200	116	25	115	

Sales of the peanuts are always the **lowest** in the summer months.

- a. Tick the column which shows sales of peanuts in the summer months.

1 mark

- b. Complete the sales table.

4 marks

- c. Work out how many **kilos** of peanuts were sold in total for the year.

3 marks

Use the space on the next page for your calculations and your answer.

Space for calculations

Sample

Task 8

(5 marks)

The next page shows the three sizes of bags of Wild Bird Peanuts.

Use this to help you answer the questions below.

Dan says the 500g bag is $\frac{1}{4}$ the weight of the 2 kg bag.

a. Is this true? Tick your answer.

☐ Yes

☐ No

1 mark

b. Show a calculation you could use to check this. Use the space below.

1 mark

A customer wants to know if there is one bag of bird nuts which is **best value** for money per 500g.

c. Work this out for the customer.

2 marks

Use the space below for your calculations and your answer.

d. Check your calculations.

1 mark

Use the space below.



Images adapted from <http://thegardenfactory.co.uk>

Task 9**(4 marks)**

You and Dan must stock the displays.

The table shows how the first ten displays will be shared between you and Dan.

The other displays will be shared in the same way.

a. Complete the table to show which displays you and Dan will do.

Mark these with a **D** for Dan and an **X** for you.

2 marks

Display number	Done by	Display number	Done by
1	D	16	
2	D	17	
3	X	18	
4	D	19	
5	X	20	
6	D	21	
7	D	22	
8	X	23	
9	D	24	
10	X	25	
11		26	
12		27	
13		28	
14		29	
15		30	

b. What is the difference in the number of displays you will each stock?

1 mark

Use the space below for your calculations.

1 mark

A large, empty rectangular box with a black border, intended for the student to show their calculations. A large, light gray 'Sample' watermark is diagonally across the box.

Answer

Task 10**(3 marks)**

You have to do a stock order for garden canes.

The garden canes are supplied in bundles of 10 or 100.

Complete the stock order form.

Cane size	Quantity in stock	Minimum level stock should be	Order (to nearest 10)
30cm length	14	50	
60cm length	11	50	
1 metre length	35	200	
2 metre length	20	50	
3 metre length	12	20	

Task 11**(3 marks)**

Dan has a record for 1 week's temperatures for the **indoor** plant area.

These are recorded in degrees Celsius ($^{\circ}\text{C}$), **twice** a day.

Look at the temperatures recorded at 9am and 12 noon for each day.

- a. How does the temperature change between 9am and at 12 noon each day? 2 marks

Answer

- b. How does the temperature change from one day to the next?

1 mark

Answer

Temperature records		
Day	Time	
	9am	12 noon
Monday	9 $^{\circ}\text{C}$	15 $^{\circ}\text{C}$
Tuesday	11 $^{\circ}\text{C}$	17 $^{\circ}\text{C}$
Wednesday	13 $^{\circ}\text{C}$	19 $^{\circ}\text{C}$
Thursday	15 $^{\circ}\text{C}$	21 $^{\circ}\text{C}$
Friday	17 $^{\circ}\text{C}$	23 $^{\circ}\text{C}$
Saturday	19 $^{\circ}\text{C}$	25 $^{\circ}\text{C}$
Sunday	21 $^{\circ}\text{C}$	27 $^{\circ}\text{C}$

Task 12**(2 marks)**

The table below shows records for temperatures in the same week for the **inside** and the **outside** plant areas.

The temperatures shown are the 9am recordings.

- a. What is the difference in temperatures between the inside and outdoor plant areas? 1 mark

Answer

- b. When is the temperature outside the same as the lowest temperature inside? 1 mark

Answer

Day	Inside plant area	Outside plant area
	9am	9am
Monday	9 °C	1 °C
Tuesday	11 °C	3 °C
Wednesday	13 °C	5 °C
Thursday	15 °C	7 °C
Friday	17 °C	9 °C
Saturday	19 °C	11 °C
Sunday	21 °C	13 °C