

Name \_\_\_\_\_ Class \_\_\_\_\_

1 Look at these pictures of a mother and her two daughters.



Ann



Zoe



Mum

a Name one characteristic that the two sisters both have. \_\_\_\_\_

\_\_\_\_\_

[1 mark]

b Name one characteristic that **both** sisters share with their mother.

\_\_\_\_\_

[1 mark]

c Name one characteristic that Ann has that she did **not** inherit from her mother or her father.

\_\_\_\_\_

[1 mark]

2 When sexual reproduction occurs, two sex cells join together.

a What is the name of the male sex cell in plants? \_\_\_\_\_

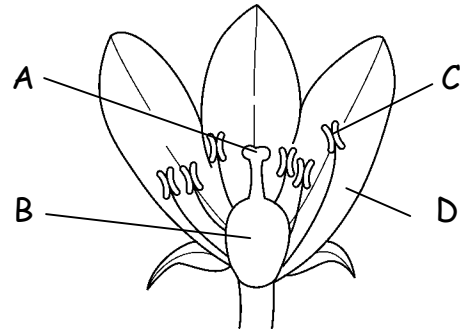
[1 mark]

b Which letter points to the part of the flower that makes the male sex cells? \_\_\_\_\_

[1 mark]

c Which letter points to the part of the flower that makes the female sex cells? \_\_\_\_\_

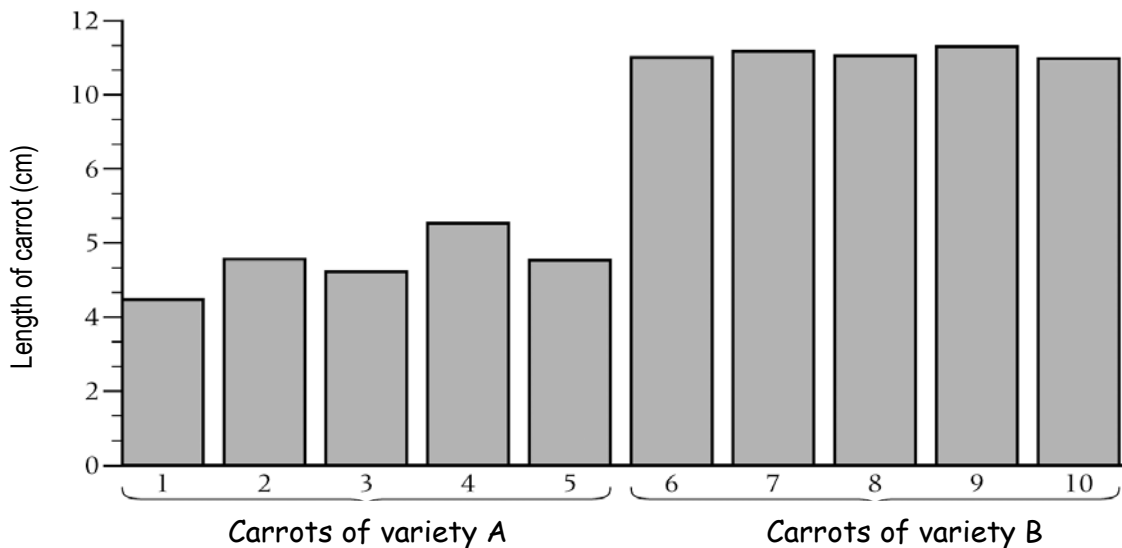
[1 mark]



d What is the name of the male sex cell in animals? \_\_\_\_\_

[1 mark]

3 Carrot plants vary from their parents. The graph shows the results of an experiment using five carrots from two different varieties.



a In what way are the two varieties of carrots different? \_\_\_\_\_

[1 mark]

b Is there greater variation between two carrots of the same variety or two carrots of different varieties? \_\_\_\_\_

[1 mark]

**9A****End of Unit Test (Levels 3-5) (continued)**

c Which variety shows the greater variation? \_\_\_\_\_

[1 mark]

4 Look at this information about different varieties of apple.

Variety V apples have an average mass of 140 g. They taste sweet.

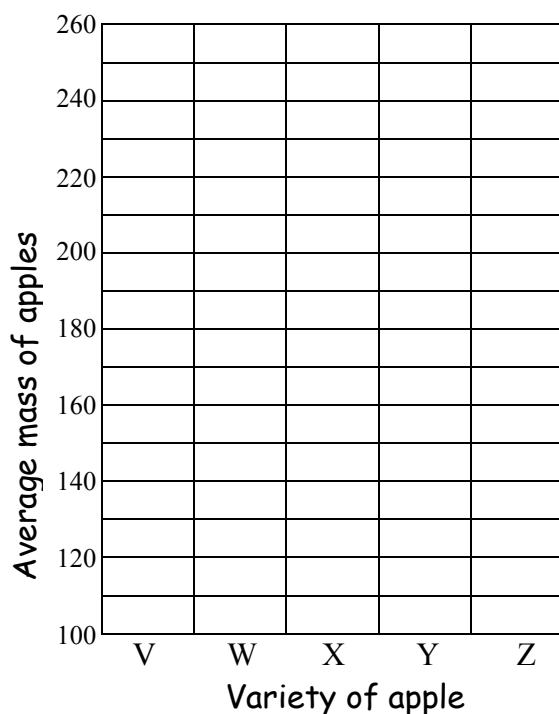
Variety W apples are sharp, and have an average mass of 110 g.

Variety X apples are sharp, and have an average mass of 240 g.

Variety Y apples have an average mass of 170 g, and are not sharp or sweet.

Variety Z apples have an average mass of 200 g. They taste sweet.

a Plot a bar chart to show the average mass of each variety of apple.



[1 mark]

b Which apple would be the best for people who like small, sweet apples?

\_\_\_\_\_

[1 mark]

**9A****End of Unit Test (Levels 3-5) (continued)**

- c Cooking apples are usually big, and do not taste sweet. Which variety do you think is a cooking apple? \_\_\_\_\_

[1 mark]

- d An apple has a mass of 160 g. Which variety do you think it is? \_\_\_\_\_

Explain your answer. \_\_\_\_\_

\_\_\_\_\_

[2 marks]