



Name : \_\_\_\_\_

Date : \_\_\_\_\_

Grade 4 ( )

1. Look at the pictures of different fruits and state the method of dispersal and its adaptation.

fruits	method of dispersal	adaptation
	<u>By wind</u>	<b>It is light. It has a wing like structure to catch the wind and float in the air.</b>
	<u>by animals</u>	<b>It has hooks to cling onto the animal's fur or hair.</b>
	<u>by animals</u>	<b>It is sweet and juicy. Animals will eat the fruit and disperse the seeds.</b>

2. Complete these sentences. Choose from the following words.

disperse	flowers	hard	hooks
seeds	sweet	wings	

The **seeds** of flowering plants need to be scattered away from the parent plant so that they can grow healthily.

Animals help some plants **disperse** their seeds in several ways. Some plants have **sweet** fruits to attract animals to eat them. Some plants have fruits with **hooks** that may cling onto the animals' fur or feathers to be carried away.

3. A beaver is adapted to live in a swamp.

Which adaptations of the beaver are correct?

Tick (✓) the **two** correct answers.

<input checked="" type="checkbox"/>	It has a paddle-shaped tail to help it swim.
<input checked="" type="checkbox"/>	It has a waterproof coat to keep itself warm in the cold water.
<input type="checkbox"/>	It has gills to take in oxygen underwater.

4. Some flowers are white and not coloured.

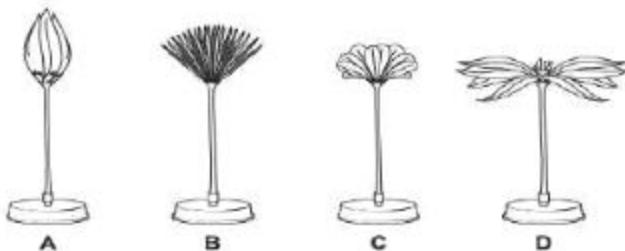
How would these flowers attract pollinators?

**They attract the pollinators by their scent.**



5. Priya and Rajiv investigate pollination of flowers by insects.

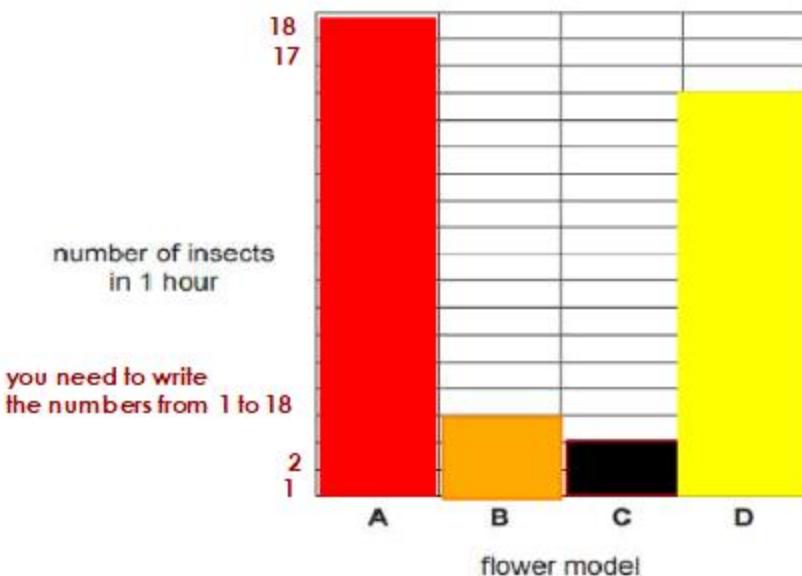
They make models of four different flowers.



They count the number of insects near each model. Here are their results.

flower model	description of flowers	number of insects in 1 hour
A	closed petals	18
B	thin spiky petals	3
C	small rounded petals	2
D	long flat petals	15

a. Draw a bar chart of their results.  
Write the scale on the y-axis. (vertical axis)



b. Which description of flowers attracts the most insects?  
Circle the correct answer.

**closed petals**

small rounded petals

thin spiky petals

long flat petals

c. Priya says 'Small rounded petals do NOT attract many insects for pollination.' Describe how the results show this.

**It only attracted two insects.**

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d. Flowering plants have a life cycle.

Put the three words in the correct order in the table.

fertilisation

germination

pollination

life cycle order
<b>pollination</b>
<b>fertilisation</b>
seed production
seed dispersal
<b>germination</b>

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