



Cambridge Primary Progression Test

Science paper 2

Stage 3



35 minutes

Name

Additional materials: Ruler

READ THESE INSTRUCTIONS FIRST

Answer **all** questions in the spaces provided on the question paper.

You should show all your working on the question paper.

The number of marks is given in brackets [] at the end of each question or part question.

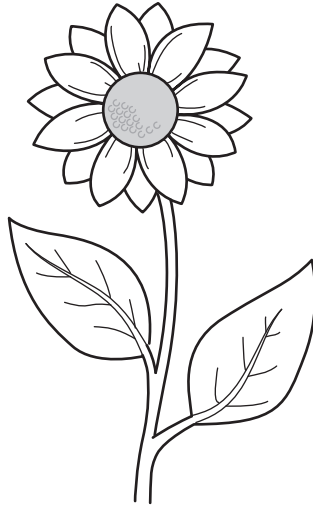
The total number of marks for this paper is 40.

For Teacher's Use	
Page	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
Total	

1 Mike draws a picture of a plant.

He has **not** drawn the roots.

Draw **and** label the roots on the plant.



[1]

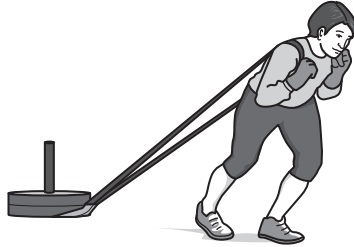
2 Lily has six pictures.

Write down if each picture shows a **push** force or a **pull** force.

One has been done for you.



.....

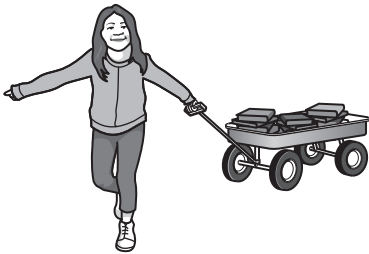


.....



push

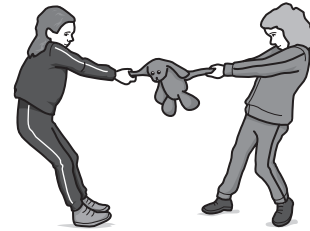
.....



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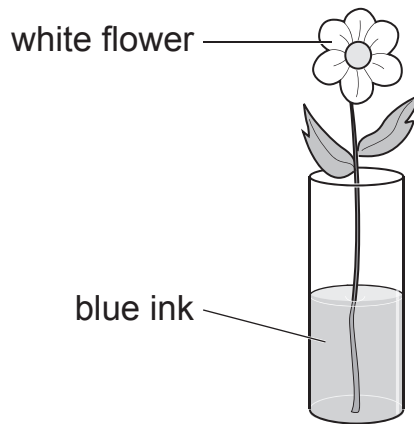
.....



.....

[2]

- 3 Carlos puts a white flower in a glass containing blue ink.



- (a) What colour is the flower the next day?

Circle the correct answer.

blue **green** **red** **white** **yellow**

[1]

- (b) Look at the diagram.

Which part of this flower does the blue ink travel through first?

Circle the correct answer.

flower **leaf** **root** **stem**

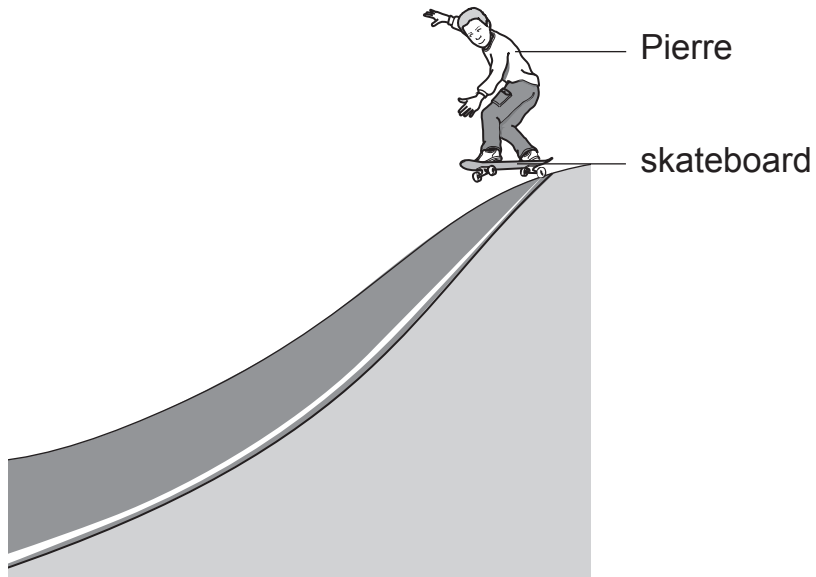
[1]

- (c) Plants grow in soil.

Which part of a plant takes in water from the soil?

..... [1]

4 Pierre rolls down the hill on his skateboard.



(a) Describe what happens to the speed of Pierre on his skateboard.

..... [1]

(b) Pierre uses his foot to stop the skateboard.

Name the force that stops the skateboard moving.

..... [1]

5 The table shows the properties of some materials.

material	is it hard or soft?	is it strong or weak?	does it dissolve in water?	does it have a high or low melting point?	does it conduct heat?
A	hard	very strong	no	high	yes
B	soft	weak	yes	high	no
C	soft	strong	yes	low	no
D	soft	strong	no	low	no
E	hard	strong	no	high	yes

(a) Material **A** is used to build this bridge over a river.

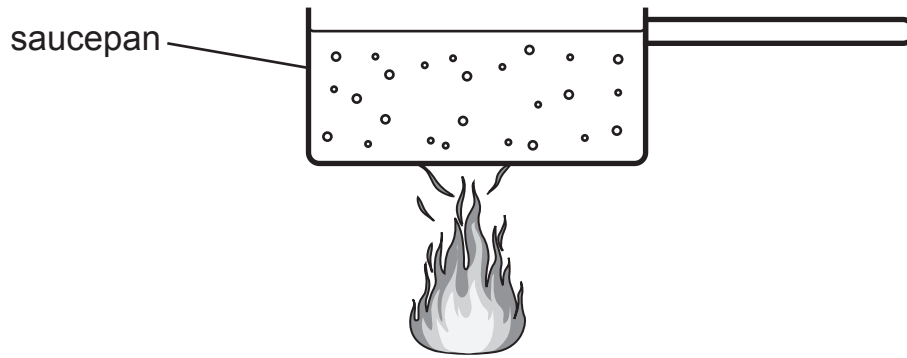


Explain why **A** is the best material to make the bridge.

Use information from the table.

..... [1]

(b) Material **E** is used to make this saucepan.



Write down two reasons why **E** is a suitable material to make the saucepan.

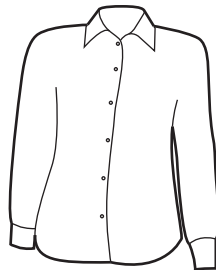
Use information from the table.

1

2

[2]

(c) This shirt can be made from one of the materials in the table.



Which material would be best to make this shirt?

Choose from **A B C D E**.

.....

Explain your answer.

.....

..... [2]

6 Safia has four identical healthy plants.



She

- puts the plants at different distances from the window
- gives them the same amount of water each day
- measures the height of the plants after six weeks.

Here are her results.

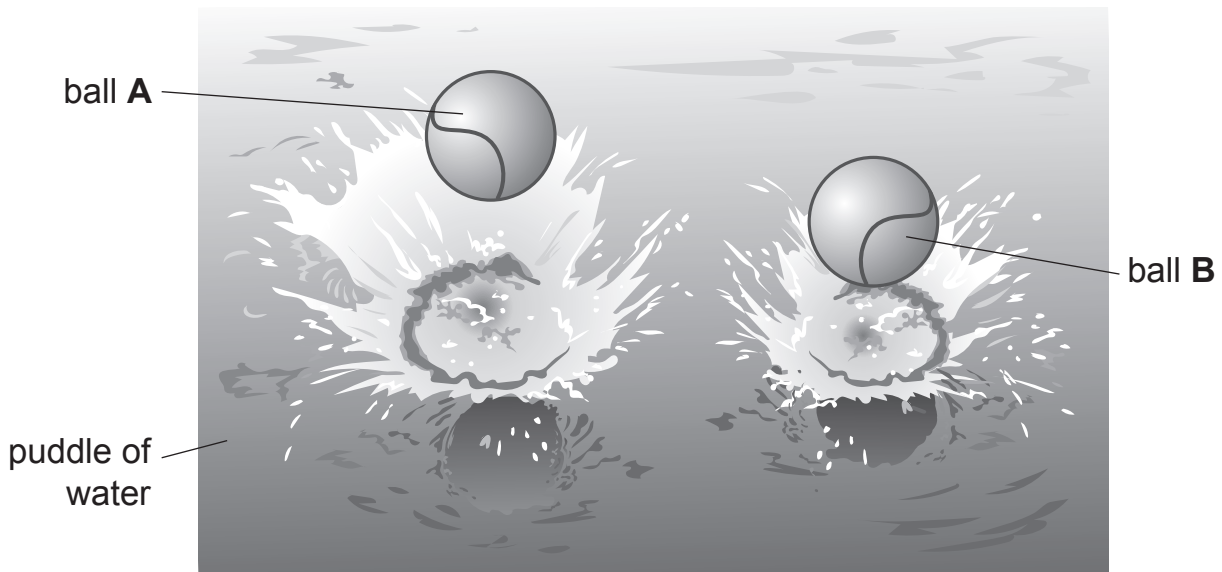
distance from the window in cm	final height in cm
10	25
20	22
30	19
40	18

Complete the sentences.

(a) The tallest plant is cm from the window. [1]

(b) This plant grows the tallest because it gets
..... [1]

7 Angelique throws down two balls into a puddle at the same time.



Ball **A** and ball **B** are

- thrown down from the same height
- the same size
- made from the same material.

(a) Which ball is thrown down with the **biggest** force?

Complete the sentences.

The ball that is thrown down with the biggest force is ball

I know this because

..... [1]

(b) Angelique says

‘The puddle of water slows down the balls.’

Explain why the puddle of water slows down the balls.

.....

..... [2]

8 Steel is a material used to make cars and trucks.

Tick (✓) the **three** correct properties of steel.

attracted to a magnet

hard

high melting point

low boiling point

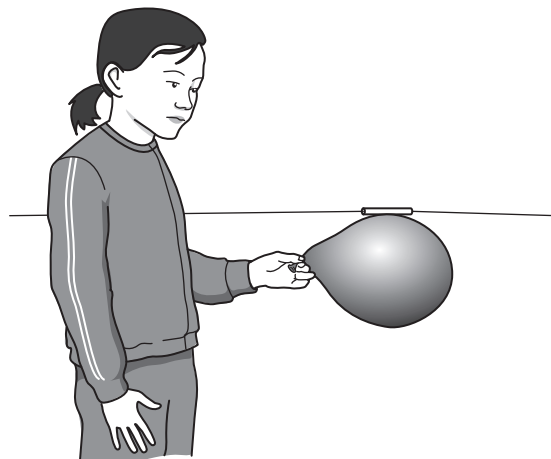
pink

weak

[3]

9 Mia and Yuri make a rocket balloon.

- Yuri puts string through a straw.
- Yuri ties the string between two chairs.
- Mia blows air into the balloon and holds the end to keep the air in.
- Yuri sticks the balloon onto the straw.



(a) Mia takes her hands off the end of the balloon.

Complete the sentences to explain what happens.

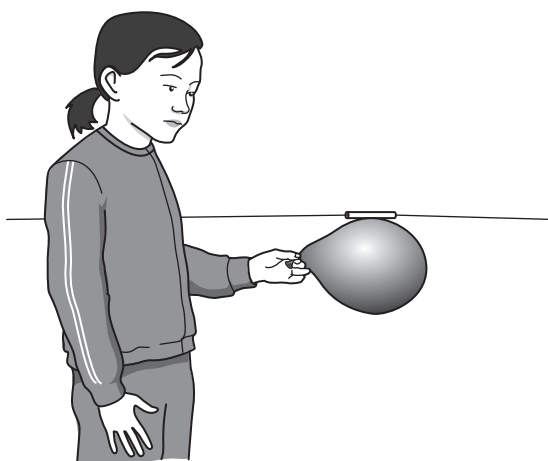
The balloon

This happens because

..... [2]

(b) Mia makes another rocket using the same balloon.

She blows **less** air into the balloon.



What do you think will happen to this rocket balloon?

.....

..... [1]

(c) What can Yuri measure to compare their two results?

Circle the **correct** answer.

colour

distance

smell

taste

temperature

[1]

10 Different materials have different properties.

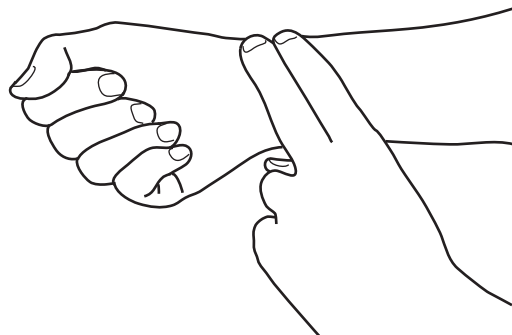
Complete the table about four materials.

One has been done for you.

material	one property of the material
gasoline	flammable
gold
salt
wool

[3]

11 Lily and Ahmed measure their pulse rate.



- Lily has a pulse rate of 90 beats every minute.
- Ahmed has a pulse rate of 92 beats every minute.

They want to find out how exercise changes their pulse rate.

(a) Predict Lily's pulse rate after exercise.

Circle the correct answer.

60

70

80

90

100

[1]

(b) Lily does some exercise.

Ahmed does some exercise.

They want to compare their pulse rates.

What two things must they do to make this a fair test?

1

.....

2

..... [2]

(c) To be healthy Lily and Ahmed need to exercise.

How much exercise do they need to do to stay healthy?

Circle the **best** answer.

once a day

once an hour

once a month

once a week

once a year

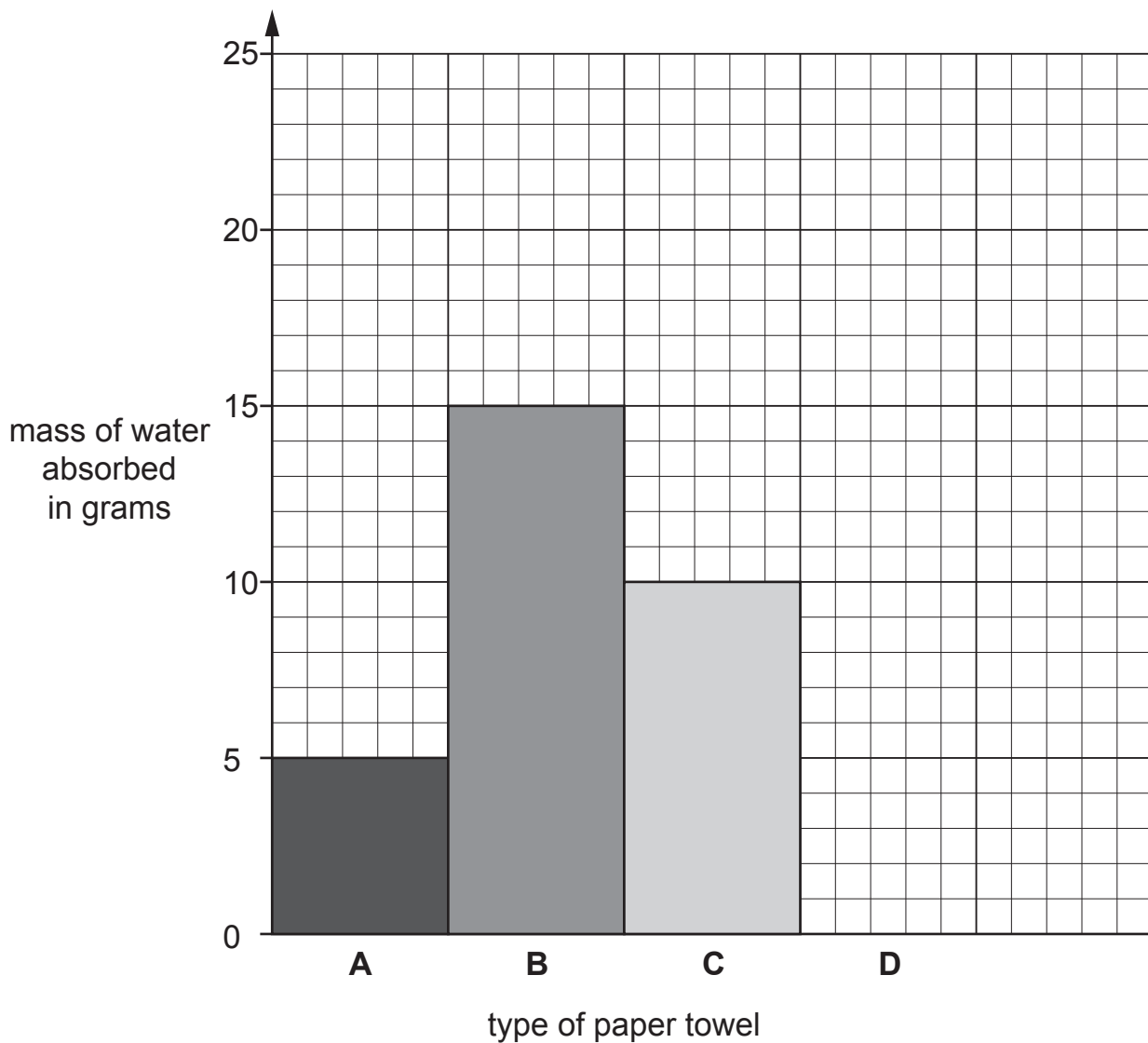
[1]

- 12** Blessy is investigating how water can be absorbed by different paper towels. She uses four different types of paper towel. Each towel is the same size. She measures how much water is absorbed by each paper towel. Here are her results.

type of paper towel	mass of water absorbed in grams
A	5
B	15
C	10
D	23

- (a) Here is a bar chart of her results.

Complete the bar chart by drawing in the result for towel **D**.



[1]

(b) Write down the letter of the paper towels from the **most** absorbent to the **least** absorbent.

most absorbent

.....

.....

least absorbent

[1]

13 Lily sorts these animals into groups.

butterfly **cat** **duck** **eagle**

elephant **shark** **whale** **worm**

Each animal can be put into more than one group.

Here is Lily's first group.

group name	animals that live in or on water		
members	whale	shark	duck

(a) Complete Lily's next group.

group name	animals that have wings		
members

[2]

(b) Lily then makes another group.

Only three of the animals fit into this group.

Write a name for this group in the table.

group name		
members	whale	shark	worm

[1]

14 Yuri has a plant growing in his house.



The flowers on Yuri's plant smell nice.

(a) Which sense organ does Yuri use to smell his flowers?

..... [1]

(b) Yuri goes on holiday for two weeks.

When he comes back his plant is still alive but looks like this.



Describe what has happened to Yuri's plant.

.....
..... [1]

(c) What can Yuri do to help his plant?

.....
..... [1]