

Reformed Pearson Edexcel Functional Skills Entry 3

Section A – Non-calculator

Mathematics

Past Paper Set 4

Valid from September 2020 to August 2021

Time: 25 minutes



Candidate name

Candidate signature

Date

You must have a

- black or blue ink pen
- pencil
- ruler
- rubber.

Instructions

- Answer every question.
- You can write or draw to show your answers.
- You must **not** use a calculator.

Information

- The total number of marks for this section is 9.

Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

Turn over ►

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Pearson

1 Talia works for a company that grows and sells plants.

A customer buys 256 vegetable plants and 288 flower plants.

Calculate the total number of plants.

(2)

Show your working and your answer here.

2 Talia grows plants in rows.

There are 25 plants in each row.

There are 15 rows of plants.

How many plants does she grow in total?

(2)

Show your working and your answer here.

3 Talia needs to deliver 550 plants to a customer.

She fills trays with plants.

Each full tray holds 60 plants.

How many trays of plants does Talia fill?

Show how many plants are left over.

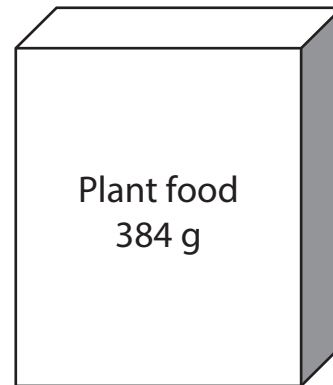
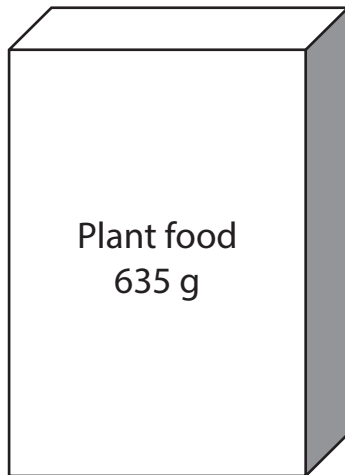
(3)

Show your working and your answer here.

_____ full trays of plants

_____ plants left over

4 Talia has these boxes of plant food.



Talia says the boxes of plant food weigh more than 1 kg in total.

Is Talia correct?

Show why you think this.

(2)

Show your working and your answer here.

Tick (✓) the correct answer.

Yes () No ()

Reformed Pearson Edexcel Functional Skills Entry 3

Section B – Calculator

Mathematics

Past Paper Set 4

Valid from September 2020 to August 2021

Time: 75 minutes



Candidate name

Candidate signature

Date

You must have a

- black or blue ink pen
- pencil
- ruler
- rubber
- calculator.

Instructions

- Answer every question.
- You can write or draw to show your answers.
- You may use a calculator.

Information

- The total number of marks for this section is 27.

Advice

- Read each question carefully.
- Check your work at the end.
- Ask if you do not understand any words.

Turn over ►

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Pearson

1 Talia works for a company that grows and sells plants.
She makes a list of plants in order of height with the tallest first.

Which plant does Talia put second in the list?

(1)

Tick (✓) the correct answer.

205 cm

()

89 cm

()

352 cm

()

250 cm

()

95 cm

()

325 cm

()

2 Talia grows 300 tomato plants.

She sells 136 tomato plants.

Talia says she has 174 plants left over.

Is Talia correct?

Show why you think this.

(2)

Show your working and your answer here.

Tick (✓) the correct answer.

Yes () No ()

3 Talia grows 400 plants in total.

She knows that 100 of these plants are chilli plants.

Talia says that $\frac{1}{10}$ of the plants are chilli plants.

Is Talia correct?

Show why you think this.

(1)

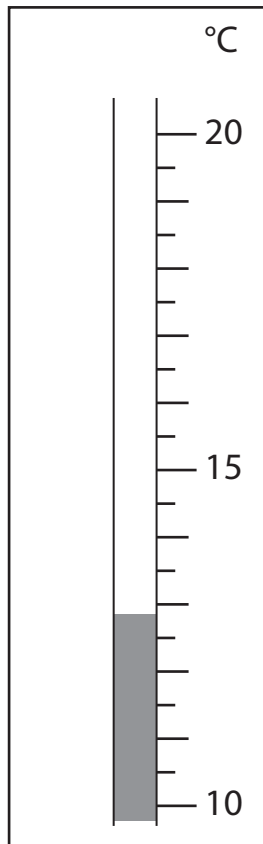
Show your answer here.

Tick (✓) the correct answer.

Yes () No ()

4 Talia wants to grow plants.

She measures the soil temperature.



The soil temperature needs to be 17°C for the plants to grow.

How much warmer does the soil need to be to the nearest °C for the plants to grow?

(1)

Show your answer here.

_____ °C

5 Talia records the temperature in a greenhouse at different times.

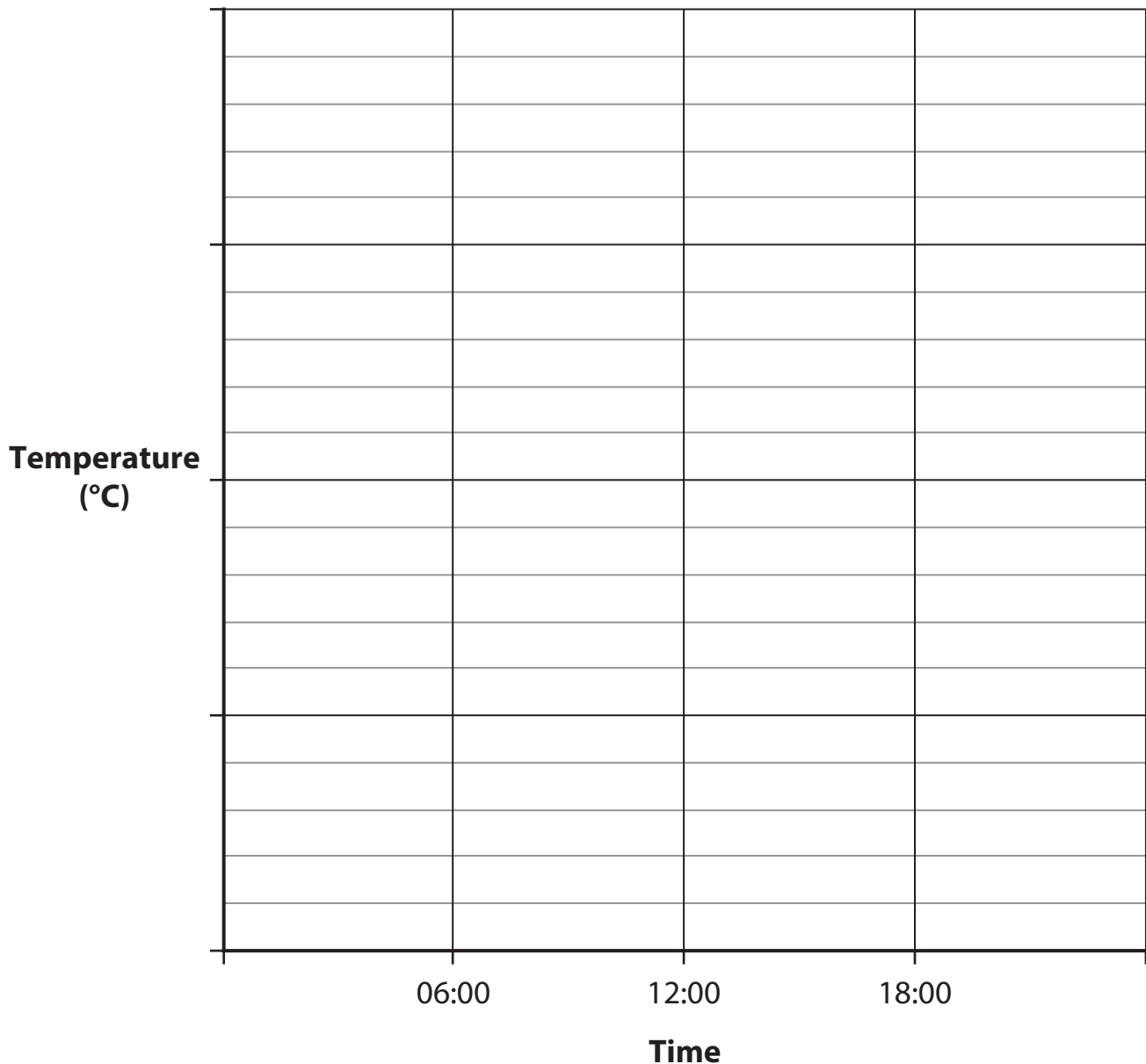
| Greenhouse temperature | |
|------------------------|------------------|
| Time | Temperature (°C) |
| 06:00 | 11 |
| 12:00 | 18 |
| 18:00 | 13 |

Talia needs a line graph to show the information.

Complete the line graph using a correct scale.

(2)

Greenhouse temperature



6 Talia wants to put a new heater in a greenhouse.

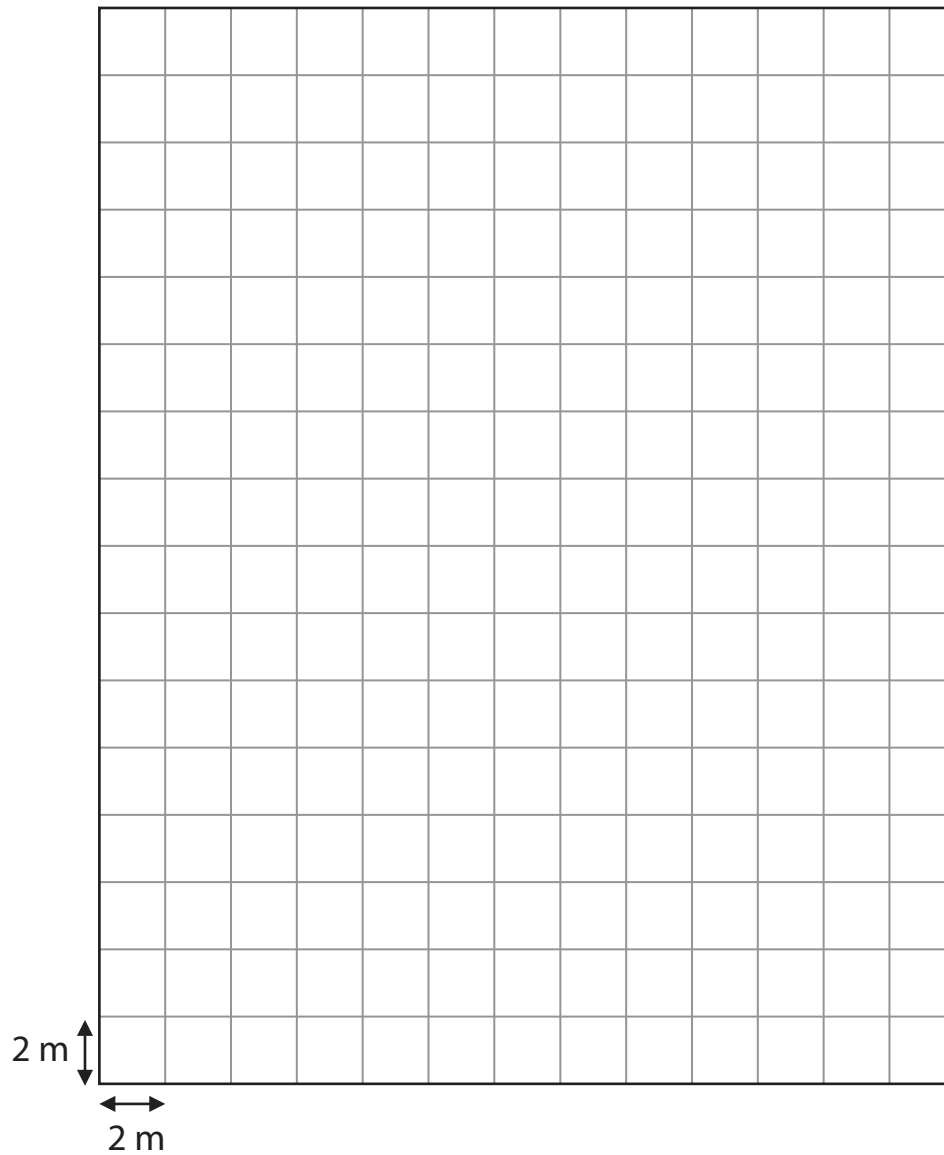
The heater must be 10 m or more from each side of the greenhouse.

Draw an X on the diagram to show a suitable position for the heater on the floor.

(1)

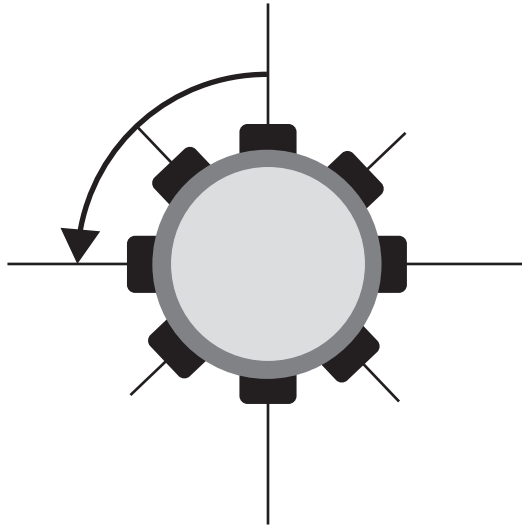


Diagram of greenhouse floor



Key  heater

7 Talia turns the temperature dial on the greenhouse heater.



What fraction does she turn the dial?

(1)

Show your answer here.

8 Talia buys a time switch for a greenhouse heater.

The time switch costs £44.34

The cost of delivery is £3.76

What is the total cost of the time switch and delivery?

Use correct money format.

(3)

Show your working and your answer here.

9 (a) Round £3.76 to the nearest 10p.

(1)

Show your answer here.

(b) Use the rounded cost to check your answer to question 8

(1)

Show your check here.

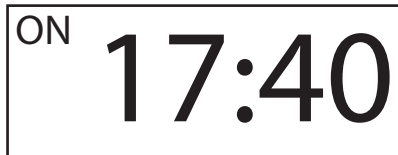
10 Talia wants to use the greenhouse heater.

She switches the heater on between 7:30 pm and 8:30 pm.

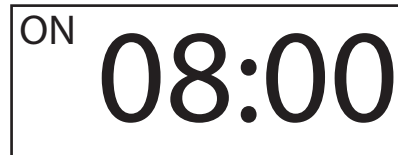
Which clock shows the time Talia switches the heater on?

(1)

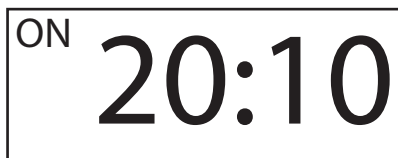
Tick (✓) the correct answer.



()



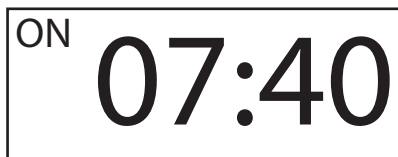
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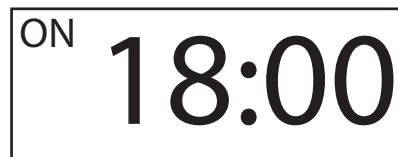
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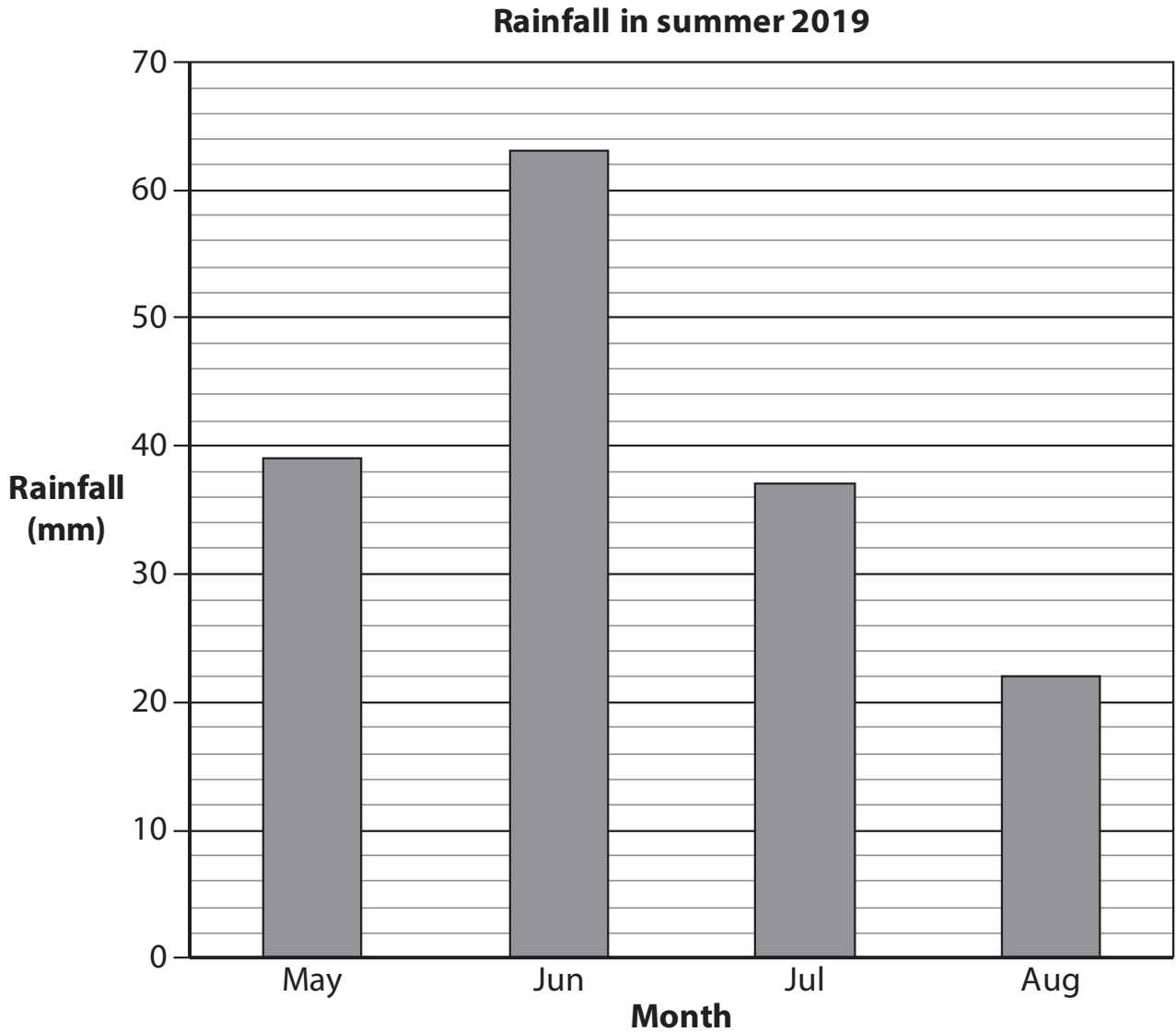


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11 This chart shows the rainfall in summer 2019.



In June 2020 there was 40 mm of rainfall.

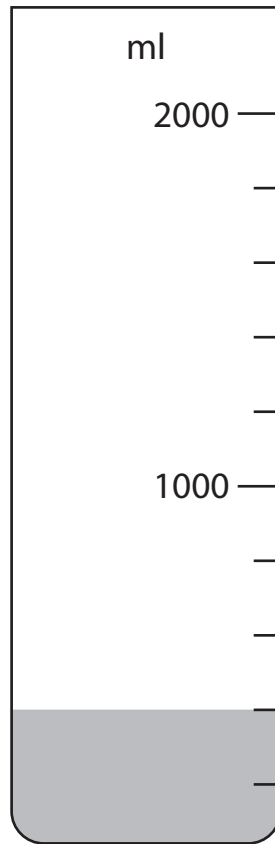
How much more rainfall was there in June 2019 than in June 2020?

(1)

Show your answer here.

_____ mm

12 Talia makes a mixture of liquid plant food and water.
She puts liquid plant food in a jug.



Talia pours water into the jug to make a total of 1 litre of mixture.

How much water does she pour into the jug?

(3)

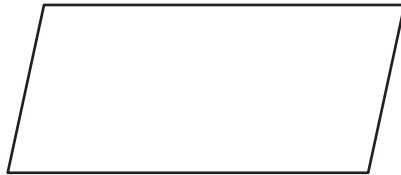
Show your working and your answer here.

13 Talia has plant labels of different shapes.

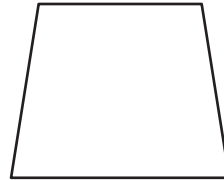
Which shape has sides that are all the same length?

(1)

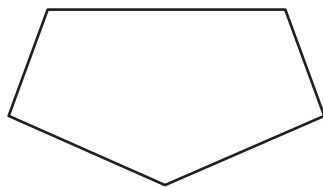
Tick (✓) the correct answer.



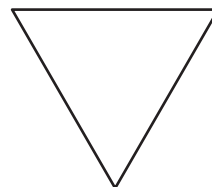
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14 Talia has pots of different heights.

The heights follow this pattern.

45 mm 60 mm 75 mm

Talia uses a pot the next height up from 75 mm.

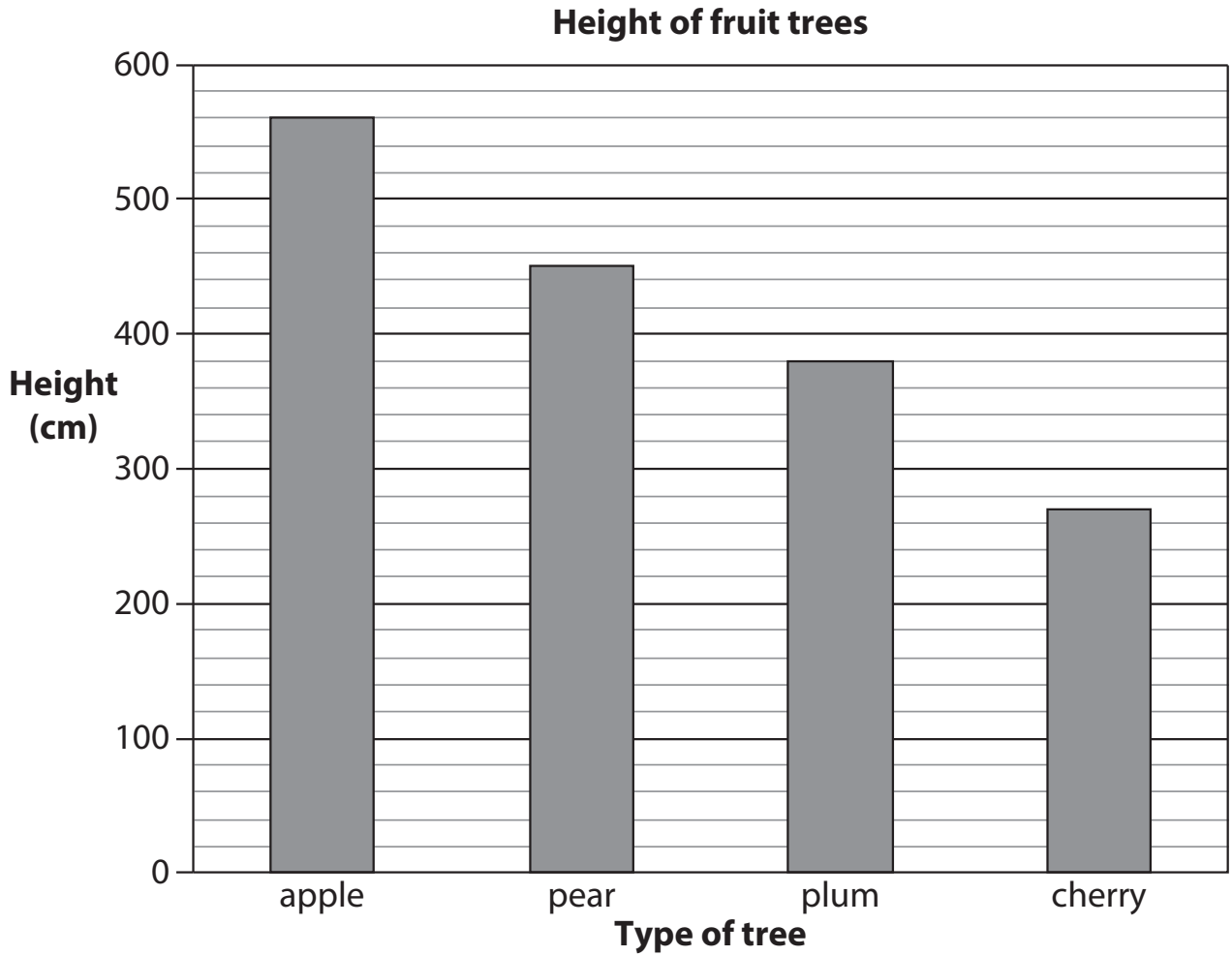
What height of pot does Talia use?

(1)

Show your answer here.

_____ mm

15 Talia has a chart to show the heights of fruit trees.



How much taller is the apple tree than the plum tree?

(3)

Show your working and your answer here.

_____ cm

16 Talia looks for a new forklift for the company.



| Information about forklifts | | | |
|-----------------------------|----------|------------------------------|------------------------------|
| Forklift | Power | Maximum lift weight (tonnes) | Maximum lift height (metres) |
| A | diesel | 2.5 | 4.5 |
| B | electric | 0.9 | 2.5 |
| C | electric | 2.0 | 4.5 |
| D | diesel | 2.0 | 3.3 |
| E | gas | 3.0 | 4.1 |
| F | electric | 1.5 | 4.0 |

Talia chooses an electric forklift.

The lift weight needs to be 1.5 tonnes or more.

The lift height needs to be more than 4.0 metres.

Which forklift does Talia choose?

(1)

Show your answer here.

17 Talia weighs tomatoes from different plants.

Which plant has the greatest weight of tomatoes?

(1)

Tick (✓) the correct answer.

plant A
0.6 kg

()

plant B
0.64 kg

()

plant C
0.59 kg

()

plant D
0.4 kg

()

plant E
0.7 kg

()

plant F
0.68 kg

()

18 Talia answers emails from customers about plants.

She counts the subjects of emails.

| | | | | |
|-------|----------|----------|----------|----------|
| food | food | watering | soil | watering |
| soil | watering | pests | soil | pests |
| food | watering | pests | watering | soil |
| pests | pests | soil | pests | watering |

Complete the frequency table for the results.

(1)

| Frequency table | |
|--------------------------|------------------|
| Subject of emails | Frequency |
| food | 3 |
| pests | 6 |
| soil | 5 |
| watering | |