

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel
Functional Skills**

Centre Number

Candidate Number

**Sample assessment material for first teaching
September 2019**

Time: 25 minutes

Paper Reference **SAML2/01**

Mathematics

Level 2

Section A (Non – Calculator)



You must have:

Pen, HB pencil, eraser, ruler graduated in cm and mm, protractor,
pair of compasses.

Total Marks

My signature confirms that I will not discuss the content of the test with anyone.

Signature: _____

Instructions

- Use a **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Sign the declaration.
- Answer **all** questions.
- Write your final answers in the boxes provided.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You **must** show clearly how you get your answers in the spaces provided. Marks will be awarded for your working out.
- Check your working and your answers at each stage.
- Diagrams are **not** accurately drawn, unless otherwise indicated.
- **Calculators may not be used**
- Take the value of π to be 3.14

Information

- The total mark for this section is 16
- The marks for each question are shown in brackets.
– *use this as a guide to how much time to spend on each question.*
- This sign ☒ shows where marks will be awarded for showing your checks.

Advice

- Read each question carefully before you start to answer it.
- Check your answers if you have time at the end.

Turn over ►

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SECTION A

Answer ALL questions. Write your answers in the spaces provided.

- 1** Ria works in a paint shop.
She needs to make 1500 ml of purple paint.

Ria makes purple paint by mixing red paint and blue paint and white paint in the ratio 3 : 2 : 1

How much blue paint does Ria need to make 1500 ml of purple paint?

(3)

ml

(Total for Question 1 is 3 marks)

- 2 Here is some information about the number of houses sold by 20 sales people.

Number of houses sold	Frequency		
1 – 5	7		
6 – 10	6		
11 – 15	5		
16 – 20	2		

Work out an estimate for the mean number of houses sold.

(3)

(Total for Question 2 is 3 marks)

- 3 Amanda wants to buy a new mobile phone.
She sees these two offers for the same mobile phone.

Offer A

2 year contract
monthly cost £59
and
mobile phone cost £39.96

Offer B

SIM only
monthly cost £11
and
mobile phone cost £889.92

Amanda says,

'I will save more than £300 in total over 2 years with offer B'.

Use estimation to check if her statement is reasonable.
You **must** show your working.

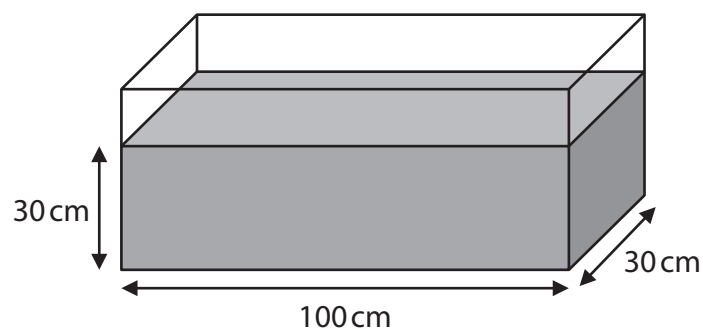
(4)

(Total for Question 3 is 4 marks)

4 Matt buys a new fish tank.

The fish tank is in the shape of a cuboid.

The diagram shows water in the tank.



Matt knows

$$1000 \text{ cm}^3 = 1 \text{ litre}$$

$$1 \text{ gallons} = 4.5 \text{ litres}$$

He can keep 2 small fish in the tank for every 1 gallon of water in the tank.

Matt thinks he can keep more than 36 small fish in the tank.

Is Matt correct?

(6)

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(Total for Question 4 is 6 marks)

TOTAL FOR SECTION A = 16 MARKS

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