



Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

Functional Skills Level 2

MATHEMATICS

Paper 1 Non-Calculator

Time allowed: 30 minutes

Materials

For this paper you must have:

- mathematical instruments.
- You must **not** use a calculator.



Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- State the units of your answer where appropriate.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 20.
- You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.

Advice

In all calculations, show clearly how you work out your answer.

For Examiner's Use	
Question	Mark
1–5	
6	
TOTAL	



N 0 V 2 1 8 3 6 2 1 0 1

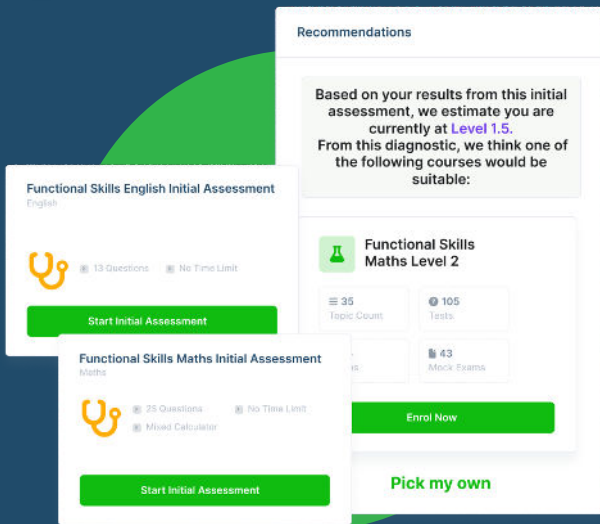
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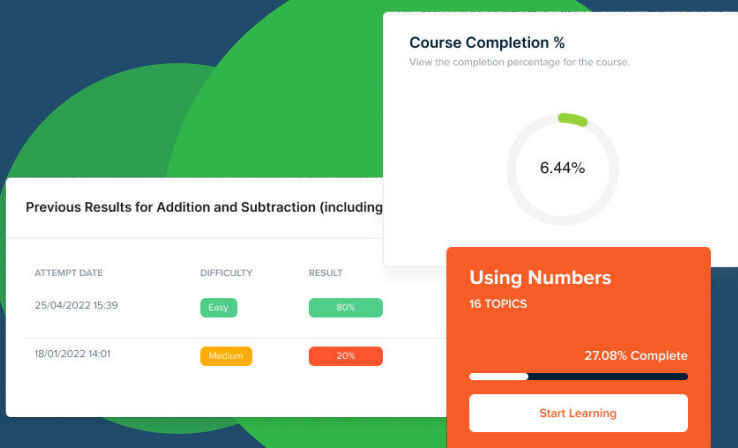
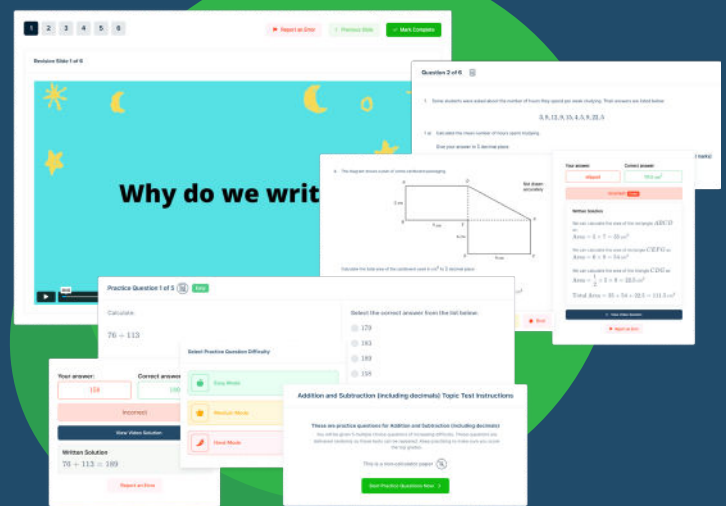


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- ✓ Always know the level you are currently working at
- ✓ Determine when you are ready to sit your exam



- ✓ Explainer videos on every topic
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- ✓ See your progress through as you progress through each topic area
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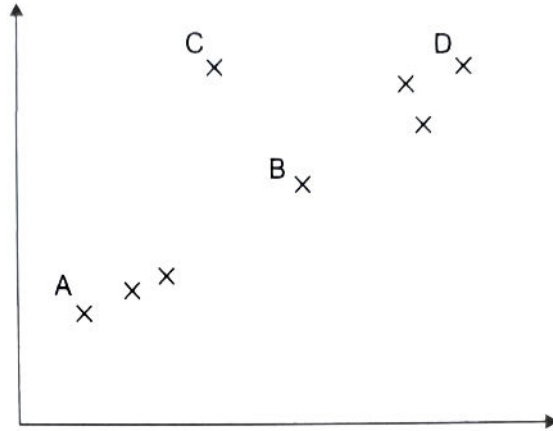
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Do not write outside the box

Section A

Answer **all** questions in the spaces provided.

1 Here is a scatter diagram.



Four of the points are labelled.

Which one of these points is an outlier?

Circle your answer.

A

B

C

D

[1 mark]

2 Work out $942795 - 350823$

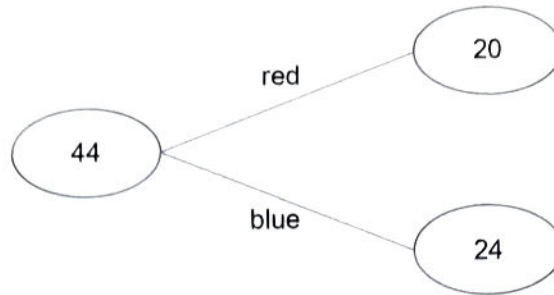
[1 mark]

$$\begin{array}{r}
 942795 \\
 - 350823 \\
 \hline
 591972 \\
 \hline
 \end{array}$$

Answer 591972



- 3 The frequency tree shows information about the colour of 44 items.
One of the items is chosen at random.



Work out the probability that the item is **blue**.
Give your answer as a fraction in its simplest form.

[2 marks]

$$\text{Total} = 44$$

$$\text{Answer } \frac{24}{44}$$

- 4 Work out 19% of 150

[2 marks]

$$10\% \text{ of } 150 = 15$$

$$1\% \text{ of } 150 = 1.5$$

$$9\% \text{ of } 150 = 13.5$$

$$19\% = 15 + 13.5 = 28.5$$

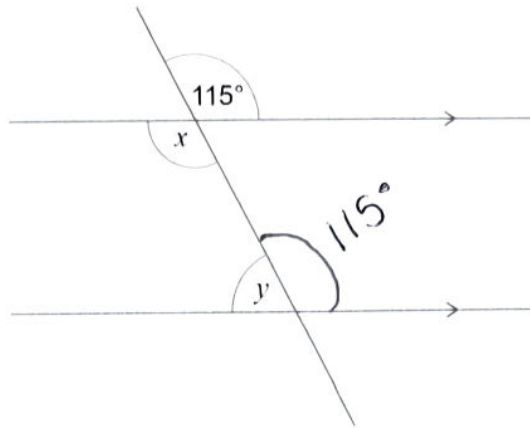
$$\text{Answer } 28.5$$

Turn over ►



Do not write
outside the
box

5

Not drawn
accuratelyWork out the size of angle x and the size of angle y .**[2 marks]**

$$y = 180 - 115 = 65^\circ$$

$$x = 115^\circ$$

$$x = \underline{115}^\circ$$

$$y = \underline{65}^\circ$$

8



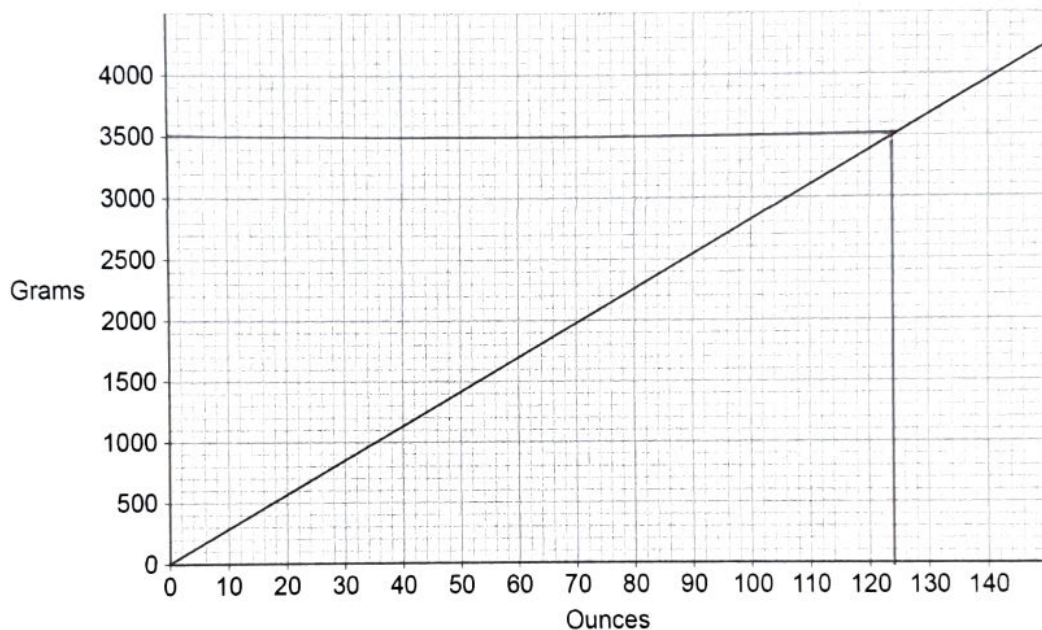
Section B

Answer **all** questions in the spaces provided.6 **Baby**

Jo has a baby.

She calls the baby Ella.

- 6 (a) The graph can be used to convert between grams and ounces.



At birth, Ella weighed 3.5 kg

Did Ella weigh **more than** 8 pounds?

Use 1 pound = 16 ounces

You **must** show your working.

[4 marks]

$$3.5 \text{ kg} = 3500 \text{ g} = 124 \text{ ounces}$$

$$1 \text{ pound} = 16 \text{ ounces}$$

$$7.75 \text{ pounds} = 124 \text{ ounces}$$

No, not more than
8 pounds

Question 6 continues on the next page

Turn over ►



- 6 (b) Here are the birth weights of 7 other babies born on the same day as Ella.

Weight (kg)	2.3	2.5	2.7	3.6	4	4	4
					4	4	4

Jo's mum says,

"Ella's weight of 3.5 kg is more than the average weight of the other 7 babies."

Jo says,

"It depends on which type of average you use."

Show that Jo is correct.

[4 marks]

$$\begin{aligned} \text{mean} &= 2.3 + 2.5 + 2.7 + 3.6 + 4 + 4 + 4 \\ &= 23.4 \div 7 = 3.3 \end{aligned}$$

$$\text{median} = 3.6$$

$$\text{mode} = 4$$

Yes it depends on the type of average used



- 6 (c) Jo sees this special offer on a pack of nappies.



Jo normally buys nappies that cost 21p each.

How much will Jo save **per nappy** by buying this pack?

You **must** show your working.

[4 marks]

$$25 \text{ nappies} = 6.75 \div 3 = 2.25$$

$$6.75 - 2.25 = 4.5$$

£4.50 per 25 nappies

$$4.5 \div 25 = 0.18$$

£0.18 per nappy

$$\text{saves } 0.21 - 0.18 = \text{£}0.03$$

$$= 3\text{p}$$

Answer 3 p

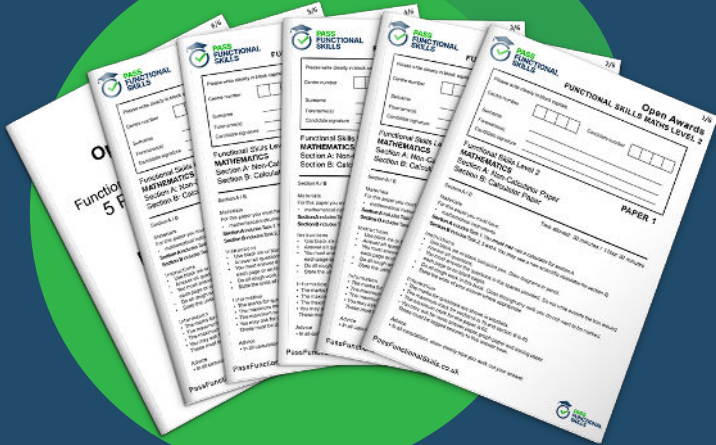
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END OF QUESTIONS

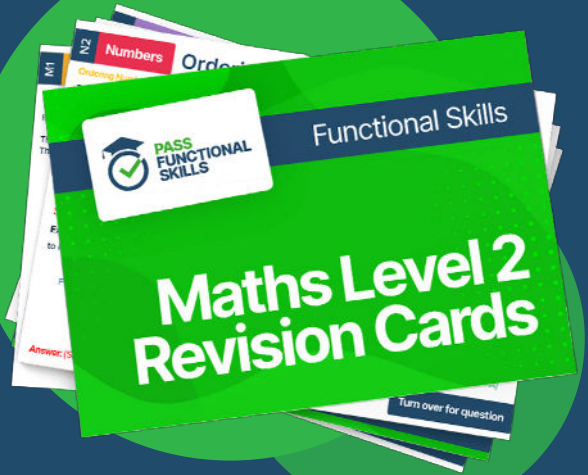




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