

FOR OFFICIAL USE

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KU

RE

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Total Marks

2500/401

NATIONAL
QUALIFICATIONS
2007

THURSDAY, 3 MAY
9.00 AM – 9.20 AM

MATHEMATICS
STANDARD GRADE
Foundation Level
Paper 1
Non-calculator

Fill in these boxes and read what is printed below.

Full name of centre

--

Town

--

Forename(s)

--

Surname

--

Date of birth

Day Month Year

--	--	--	--	--	--	--	--

Scottish candidate number

--	--	--	--	--	--	--	--

Number of seat

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- 1 You may **NOT** use a calculator.
- 2 Answer as many questions as you can.
- 3 Write your working and answers in the spaces provided. Additional space is provided at the end of this question-answer book for use if required. If you use this space, write clearly the number of the question involved.
- 4 Full credit will be given only where the solution contains appropriate working.
- 5 Before leaving the examination room you must give this book to the invigilator. If you do not, you may lose all the marks for this paper.



Marks

KU	
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RE

- 1.** Work out the answers to the following.

(a) $1375 + 462$

WORKING

ANSWER

1

(b) 5.23×4

WORKING

ANSWER

1

(c) $\frac{1}{8}$ of 120 metres

WORKING

ANSWER

metres

2

[illegible]

Closing Down Sale
20% Off All Marked Prices

A black and white line drawing of a bicycle. The bicycle is shown from a side profile, facing left. It has a diamond frame, two wheels with many spokes, a seat, handlebars, a chain, and pedals. A small rectangular price tag is attached to the frame, displaying the text "£150".

The marked price was £150.

How much money was taken off the marked price?

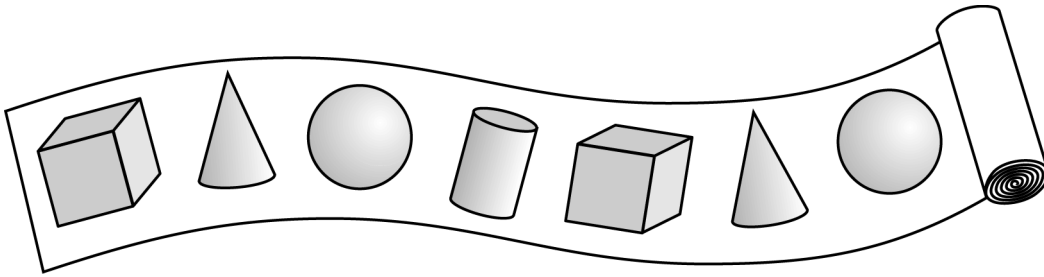
 \mathcal{L}

2

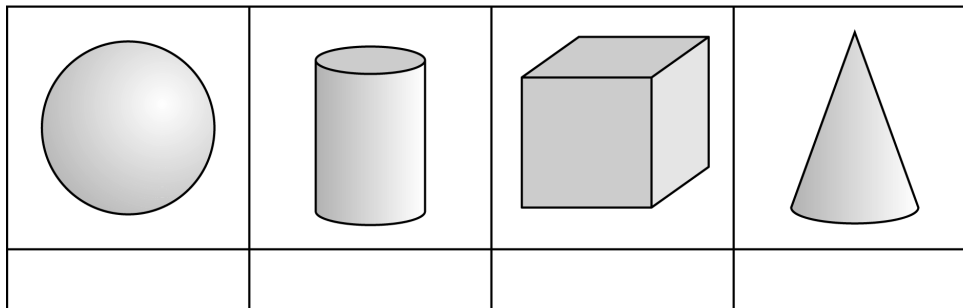
Marks

KU	RE
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4. When George decorates his son's bedroom, he uses a wallpaper border.



- (a) Tick (✓) the **next** shape George will see as he continues to unroll the border.



- (b) Write down the mathematical name of the shape you have ticked.

ANSWER

1

1

[illegible]

-
- A black and white photograph of a woman with blonde, wavy hair, wearing a light-colored trench coat over a dark jacket and a white top. She is standing outdoors, possibly near a vehicle, looking towards the right.

2

-
- A black and white line drawing of a woman with short, wavy hair, sitting on a sofa. She is wearing a patterned top and shorts, and is holding a remote control. A DVD case is on the floor next to her. On the wall behind her are two framed pictures: one of a sailboat and one of a landscape with a tree. To her right is a television set on a stand, displaying a bright, abstract image.

She wants to watch the television programme, Football Highlights, which starts at 10.15 pm.

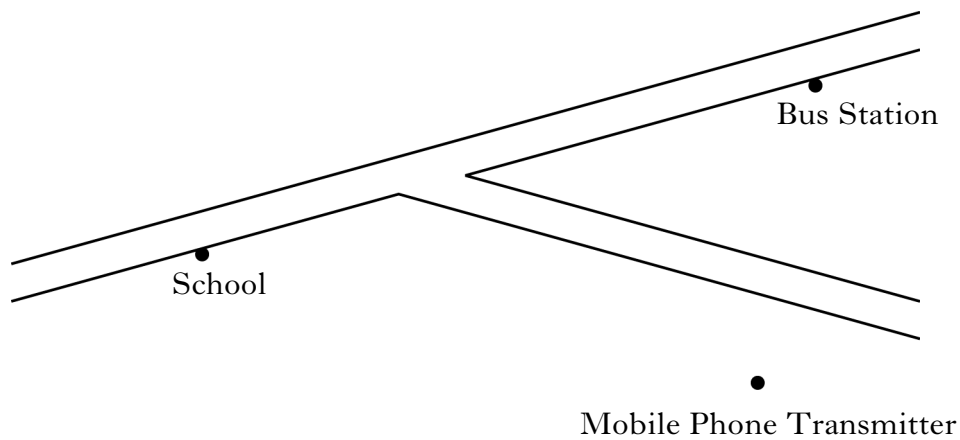
When the film ends, how long will it be until the start of Football Highlights?

WORKING	
ANSWER	minutes

Marks

KU	RE
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- This map shows the positions of a School, a Bus Station and a Mobile Phone Transmitter.



- (a) Measure the distance from the School to the Bus Station **on the map**.

ANSWER

centimetres

1

- (b) The scale of the map is **1 centimetre represents 100 metres**.
Find the actual distance from the School to the Bus Station.

WORKING

ANSWER

metres

2

7.

(continued)

- (c) New safety regulations state that mobile phone transmitters should be more than **1 kilometre** from any school.

Is the Mobile Phone Transmitter shown on the map a safe distance from the School?

You must give a reason for your answer.

WORKING

ANSWER INCLUDING REASON

Marks

KU RE

3

[illegible]

-
- A circular diagram representing a compass rose. The center is a black dot labeled "Submarine". Twelve radial lines extend from the center to the circumference, labeled with angles: 000°, 030°, 060°, 090°, 120°, 150°, 180°, 210°, 240°, 270°, 300°, and 330°. Two points are marked: "A" is on the 120° line, and "B" is on the 210° line.

Ship A is on a bearing of 120° from the submarine.

ANSWER	o
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1

[2500/401]

ADDITIONAL SPACE FOR ANSWERS

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