

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson  
Edexcel Award**

Centre Number

Candidate Number

**Thursday 7 January 2021**

Morning (Time: 1 hour)

Paper Reference **ANM20/2A**

**Number and Measure**

**Level 2**

**Section A (Calculator)**



**You must have:** Ruler graduated in centimetres and millimetres, protractor, pen, HB pencil, eraser, calculator.

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- **Calculators may be used.**
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

### Information

- The total mark for this section is 50
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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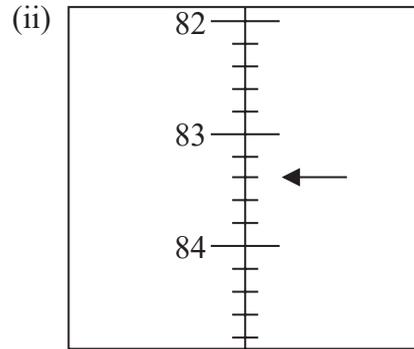
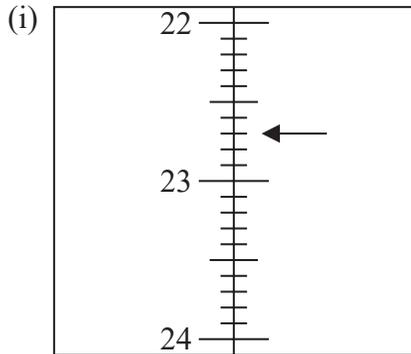
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write down the numbers marked with arrows ( $\leftarrow$ ).



(i) .....

(ii) .....

(Total for Question 1 is 2 marks)

2 (a) Find the value of  $32^3$

.....  
(1)

(b) Find the value of  $\sqrt{324}$

.....  
(1)

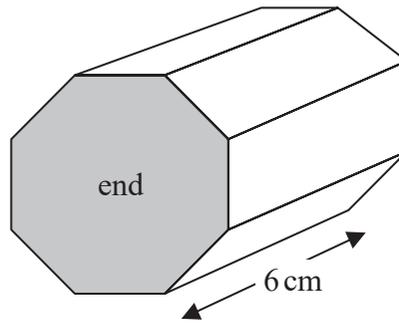
(c) Work out the value of  $\sqrt{20^2 - 16^2}$

.....  
(2)

(Total for Question 2 is 4 marks)

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3 A box is in the shape of a prism.



Each end of the prism is an 8-sided shape, shown shaded in the diagram.

The volume of the prism is  $75 \text{ cm}^3$

The length of the prism is 6 cm

Work out the area of one of the 8-sided ends of the prism.

.....  $\text{cm}^2$

**(Total for Question 3 is 2 marks)**

4 (a) Work out  $+4 \times -7$

.....  
(1)

(b) Work out  $-3 + -5$

.....  
(1)

**(Total for Question 4 is 2 marks)**

5 Change £250 into Argentine pesos using an exchange rate of £1 = 23 Argentine pesos.

..... pesos

**(Total for Question 5 is 2 marks)**

6 (a) Write 87.7392 correct to 2 decimal places.

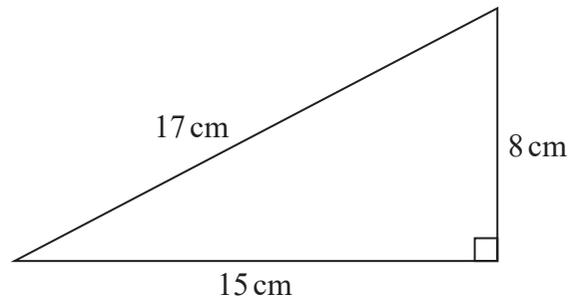
.....  
(1)

(b) Work out  $6.42 \times 5.3$

.....  
(1)

(Total for Question 6 is 2 marks)

7 Here is a triangle.



(a) Work out the perimeter of the triangle.

..... cm  
(2)

(b) Work out the area of the triangle.

..... cm<sup>2</sup>  
(2)

(Total for Question 7 is 4 marks)

8 Change 150 cm into feet.  
(1 foot = 30 cm)

..... feet

(Total for Question 8 is 2 marks)

9 Work out  $4\frac{1}{4} \div 2\frac{1}{2}$

.....

(Total for Question 9 is 2 marks)

10 Waheed pays 12% National Insurance on the money he earns each month.

One month he earns £1400

Work out how much National Insurance he pays.

£.....

(Total for Question 10 is 2 marks)

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11 Sam makes small and large flower displays.

He gets £12.50 for each small flower display he sells.

He gets £18.50 for each large flower display he sells.

Last week he sold

25 small flower displays

18 large flower displays

He paid £129.15 tax on the total amount of money he got last week.

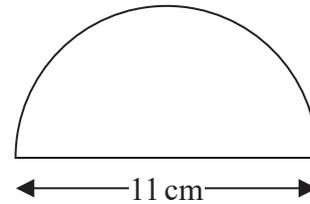
Work out how much money Sam got to keep last week after the deduction of tax.

£.....

(Total for Question 11 is 4 marks)

12 A semicircle has a diameter of 11 cm.

Work out the perimeter of the semicircle.



..... cm

(Total for Question 12 is 3 marks)

13 Martin sells bags of apples.

The table gives information about the total weight of the apples in each bag and the number of bags of each total weight that Martin sells.

Total weight of apples in each bag (kg)	Number of bags of apples
1	18
2	15
3	12
4	5

Work out the total weight of the apples that Martin sells.

..... kg

**(Total for Question 13 is 3 marks)**

14 Sameena invests £2000 for 2 years in an account paying simple interest at a rate of 1.5% per year.

Work out the total amount of simple interest paid to Sameena by the end of the 2 years.

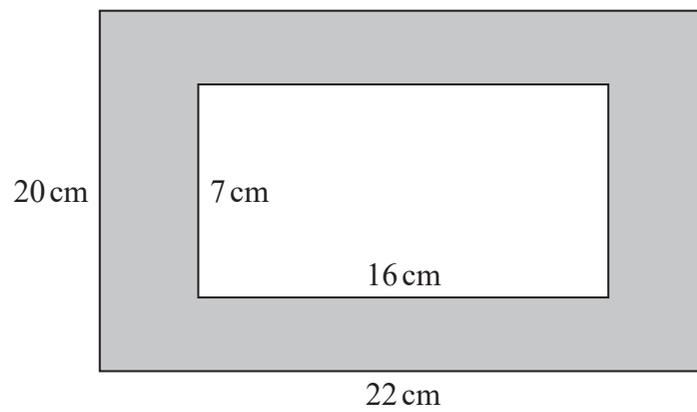
£.....

**(Total for Question 14 is 3 marks)**

15 Find the Lowest Common Multiple (LCM) of 36 and 45

.....  
(Total for Question 15 is 3 marks)

16 Here is a rectangle inside a rectangle.



Work out the area of the shaded region.

..... cm<sup>2</sup>  
(Total for Question 16 is 4 marks)

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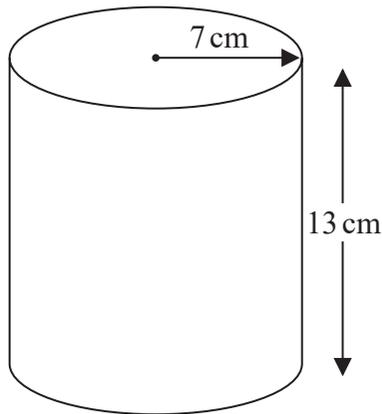
17 The number of cars failing an MOT test at a garage in 2018 was 1075  
The number of cars failing an MOT test at the garage in 2019 was 946

What is the percentage decrease in the number of cars failing an MOT test at the garage?

.....%

(Total for Question 17 is 3 marks)

18 Here is a cylinder.



The height of the cylinder is 13 cm.  
The radius of the cylinder is 7 cm.

Work out the volume of the cylinder.

..... cm<sup>3</sup>

(Total for Question 18 is 3 marks)

**TOTAL FOR SECTION A IS 50 MARKS**



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