

**Paper Reference ANM20/2A**  
**Pearson**  
**Edexcel Award**

Total Marks
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**Number and Measure**  
**Level 2**  
**Section A (Calculator)**

**Thursday 7 January 2021 – Morning**

**Time: 1 hour plus your additional time allowance.**

**In the boxes below, write your name, centre number and candidate number.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

**Q63679RA**

**YOU MUST HAVE**

**Ruler, protractor, writing and drawing equipment, calculator.**

**YOU WILL BE GIVEN**

**Diagram Book**

**INSTRUCTIONS**

**Answer ALL questions.**

**Answer the questions in the spaces provided in this Question Paper or on the separate diagrams – 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  $3 \cdot 142$  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.**

**You may be provided with models for Question 3 and Question 18.**

**Turn over**

**ADVICE**

**Read each question carefully before you start to answer it.**

**Try to answer every question.**

**Check your answers if you have time at the end.**

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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. Look at the diagrams for Question 1(i) and Question 1(ii) in the Diagram Book.

Write down the two numbers marked with arrows

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(Total for Question 1 is 2 marks)

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2. (a) Find the value of

$$32^3$$

(1 mark)

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(b) Find the value of

$$\sqrt{324}$$

(1 mark)

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(continued on the next page)

2. continued.

(c) Work out the value of

$$\sqrt{20^2 - 16^2}$$

(2 marks)

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

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**Turn over**

3. Look at the diagram for Question 3 in the Diagram Book.

You may be provided with a model.

A box is in the shape of the prism shown.

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  $6 \text{ cm}$

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

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

(Total for Question 3 is 2 marks)

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

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

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

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10

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

\_\_\_\_\_ pesos

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

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**Turn over**

6. (a) Write  $87.7392$  correct to 2 decimal places.  
(1 mark)
- 

- (b) Work out  
 $6.42 \times 5.3$   
(1 mark)
- 

**(Total for Question 6 is 2 marks)**

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7. Look at the diagram for Question 7 in the Diagram Book.

It shows a triangle with sides marked **17 cm**, **8 cm** and **15 cm**

One right angle is marked.

- (a) Work out the perimeter of the triangle.  
(2 marks)

\_\_\_\_\_ cm

(continued on the next page)

7. continued.

(b) Work out the area of the triangle.  
(2 marks)

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

(Total for Question 7 is 4 marks)

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14

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

\_\_\_\_\_ feet

(Total for Question 8 is 2 marks)

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Turn over

9. Work out

$$4\frac{1}{4} \div 2\frac{1}{2}$$

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**(Total for Question 9 is 2 marks)**

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**Turn over**

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.

(4 marks)

Answer space continues on the next page.

11. continued.

£ \_\_\_\_\_

(Total for Question 11 is 4 marks)

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**12. Look at the diagram for Question 12 in the Diagram Book.**

**It shows a semicircle with a diameter of 11 cm**

**Work out the perimeter of the semicircle.**

\_\_\_\_\_ cm

**(Total for Question 12 is 3 marks)**

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**13. Look at the table for Question 13 in the Diagram Book.**

**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.**

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

**(3 marks)**

**Answer space continues on the next page.**

13. continued.

\_\_\_\_\_ kg

(Total for Question 13 is 3 marks)

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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)**

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

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

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**16. Look at the diagram for Question 16 in the Diagram Book.**

**It shows a rectangle inside a rectangle.**

**The outer rectangle has length 22 cm and width 20 cm**

**The inner rectangle has length 16 cm and width 7 cm**

**Work out the area of the shaded region.**

**(4 marks)**

**Answer space continues on the next page.**

16. continued.

\_\_\_\_\_ 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)

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**18. Look at the diagram for Question 18 in the Diagram Book.**

**You may be provided with a model.**

**They show 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.**

**(3 marks)**

**Answer space continues on the next page.**

18. continued.

\_\_\_\_\_ cm<sup>3</sup>

(Total for Question 18 is 3 marks)

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**TOTAL FOR SECTION A IS 50 MARKS**

**END OF PAPER**

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