

**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>					

**Y63679RA**

**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  $3.142$  unless the question instructs otherwise.**

**Turn over**

**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.**

**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.**

## **Section A**

**Answer ALL questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**5**

- 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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**Turn over**

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)

Turn over

**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 cm

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

(2 marks)

Answer space is on the next page.

Turn over

**3. continued.**

\_\_\_\_\_ **cm<sup>2</sup>**

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

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**Turn over**

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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**Turn over**

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

(1 mark)

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(continued on the next page)

Turn over

**6. continued.**

**(b) Work out**

$$6 \cdot 42 \times 5 \cdot 3$$

**(1 mark)**

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

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**Turn over**

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)

Answer space continues on the next page.

7. (a) continued.

\_\_\_\_\_ cm

(continued on the next page)

Turn over

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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Turn over

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

\_\_\_\_\_ feet

**(Total for Question 8 is 2 marks)**

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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.**

**(2 marks)**

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

10. continued.

£ \_\_\_\_\_

**(Total for Question 10 is 2 marks)**

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**Turn over**

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.

(continued on the next page)

Turn over

**11. continued.**

**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.**

**Turn over**

11. continued.

£ \_\_\_\_\_

**(Total for Question 11 is 4 marks)**

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**Turn over**

**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.**

**(3 marks)**

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

12. continued.

\_\_\_\_\_ cm

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

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**Turn over**

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.**

**Turn over**

13. continued.

\_\_\_\_\_ kg

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

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**Turn over**

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.

(3 marks)

Answer space continues on the next page.

14. continued.

£ \_\_\_\_\_

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

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**Turn over**

**30**

**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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**Turn over**

- 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 two pages.**

**Turn over**

**16. continued.**

**Turn over**

16. continued.

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

**(Total for Question 16 is 4 marks)**

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**Turn over**

- 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?**

**(3 marks)**

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

17. continued.

\_\_\_\_\_ %

**(Total for Question 17 is 3 marks)**

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**Turn over**

**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.

\_\_\_\_\_  $\text{cm}^3$

**(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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