

**Paper Reference ANM20/2A**

**Pearson**

**Edexcel Award**

Total Marks

**Number and Measure**

**Level 2**

**Section A (Calculator)**

**Thursday 2 May 2019 – 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>					

**V59970A**

**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.**

**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.**

**There may be spare copies of some diagrams.**

## **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.**

## **Section A**

**Answer ALL questions.**

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

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

- 1. (a) Look at the diagram for Question 1(a) in the Diagram Book.**

**It shows a scale.**

**Write down the number marked with the arrow.**

**(1 mark)**

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**(continued on the next page)**

**1. continued.**

**(b) Look at the diagram for  
Question 1(b) in the  
Diagram Book.**

**It shows a scale.**

**Write down the number marked  
with the arrow.**

**(1 mark)**

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**(Total for Question 1 is 2 marks)**

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2. On a table there are **150** oranges and **350** apples.

**Write as a ratio the number of oranges to the number of apples.**

**Give your answer in its simplest form.**

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

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**Turn over**

3. (a) Work out

$$£131 \div 9$$

Give your answer to the nearest penny.

(2 marks)

£ \_\_\_\_\_

(continued on the next page)

Turn over

**3. continued.**

**(b) Work out**

$$4.6 \times 2.84$$

**(1 mark)**

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

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**Turn over**

4. Look at the diagram for Question 4 in the Diagram Book.

It shows a cuboid.

The dimensions of the cuboid are length  $8.2 \text{ cm}$ , width  $2.7 \text{ cm}$  and height  $3.5 \text{ cm}$

Work out the volume of the cuboid.

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

(Total for Question 4 is 2 marks)

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Turn over

**5. Change 800 Turkish lira into pounds (£)**

**Use an exchange rate of  
£1 = 5 Turkish lira.**

**£ \_\_\_\_\_**

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

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**Turn over**

**6. Look at the diagram for Question 6 in the Diagram Book.**

**It shows a right angled triangle.**

**The sides of the triangle are labelled 10 cm, 24 cm and 26 cm**

**Work out the perimeter of the triangle.**

**(2 marks)**

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

6. continued.

\_\_\_\_\_ cm

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

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7. (a) Find the value of

$$41^3$$

(1 mark)

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(b) Find the value of

$$\sqrt{289}$$

(1 mark)

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(continued on the next page)

Turn over

7. continued.

(c) Work out the value of

$$2^5 \times 3^3$$

(2 marks)

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**(Total for Question 7 is 4 marks)**

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**Turn over**

8. Work out 6% of 700



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



9. Change 3·5 gallons into litres.  
(1 gallon = 4·5 litres)

\_\_\_\_\_ litres

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

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10. Work out

$$5\frac{2}{5} \div 2\frac{1}{4}$$

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(Total for Question 10 is 2 marks)

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Turn over

**11. Look at the diagram for Question 11 in the Diagram Book.**

**It shows an incomplete pie chart.**

**A shop sells boxes of washing powder in three sizes: large, medium and small.**

**The table below gives the number of boxes of each size sold last month.**

<b>Large</b>	<b>325</b>
<b>Medium</b>	<b>200</b>
<b>Small</b>	<b>375</b>

**(continued on the next page)**

**Turn over**

**11. continued.**

**Use this information to complete the pie chart.**

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

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12. Joan invests **£4500** for **4 years** in an account paying simple interest at a rate of **3%** per year.

**Work out the total amount of simple interest paid to Joan by the end of 4 years.**

**(3 marks)**

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

12. continued.

£ \_\_\_\_\_

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

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**Turn over**

**13. Find the Highest Common Factor  
(HCF) of 24 and 56**

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

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**Turn over**

**14. Barry makes wooden cats and dogs.**

**He earns £2·80 for each cat he makes.**

**He earns £3·20 for each dog he makes.**

**Last month Barry made 48 cats and 63 dogs.**

**He paid £67·15 tax on what he earned last month.**

**How much money did Barry get to keep for the month's work?**

**(4 marks)**

**Answer space is on the next two pages.**

**Turn over**

14. continued.

**Turn over**

14. continued.

£ \_\_\_\_\_

**(Total for Question 14 is 4 marks)**

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**15. Look at the diagram for Question 15 in the Diagram Book.**

**A circle has a diameter of 18 cm**

**Work out the circumference of the circle.**

\_\_\_\_\_ **cm**

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

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

**It shows a prism.**

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

**It shows a face of the prism.**

**Work out the area of the face shown.**

**(3 marks)**

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

**16. (i) continued.**

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

**(continued on the next page)**

**Turn over**

**16. continued.**

**(ii) The prism has length 9 cm**

**Work out the volume of the  
prism.**

**(1 mark)**

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

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

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**Turn over**

**17. The number of cookers sold in a year by a shop increases from 720 to 972**

**What is the percentage increase in the number of cookers sold in the year by the shop?**

\_\_\_\_\_ %

**(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.**

**It shows a cylinder.**

**The height of the cylinder is 8 cm**

**The radius of the cylinder is 3 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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