

**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>					

**Y59970A**

**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.**

**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)**

**Turn over**

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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Turn over

**7**

- 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)

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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**Turn over**

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**

**16**

**8. Work out 6% of 700**

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

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**Turn over**

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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**Turn over**

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**

**23**

**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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**Turn over**

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)

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Turn over

**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.

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

(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.

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

(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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