Paper Reference ANM20/2A
Pearson Edexcel Award

Total Marks

Number and Measure
Level 2
Section A (Calculator)

Time: 1 hour plus your additional time allowance

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

Surname					
Other names					
Centre Number					
Candidate Number					

X66141RA

Pearson

YOU MUST HAVE

Ruler, protractor, writing and drawing equipment, calculator.

YOU WILL BE GIVEN

Diagram Booklet.

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 π button, take the value of π 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 4 and Question 18

There may be spare copies of some diagrams in case you need them.

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.

1. (a) Look at the diagram for Question 1(a) in the Diagram Booklet.

It shows a dial.

Write down the number marked with the arrow.

(1 mark)

_____

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

It shows a scale.

Write down the number marked with the arrow.

(1 mark)

_____

(Total for Question 1 is 2 marks)

2. Work out

$$18 \cdot 5 \times 8 \cdot 72$$

(Total for Question 2 is 1 mark)

3. (a) Work out

$$-2 \times +3$$

(1 mark)

(b) Work out

$$5 - -9$$

(1 mark)

(Total for Question 3 is 2 marks)

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

You may be provided with a model.

They are NOT accurate.

They show a prism.

Find the volume of the prism.

_____ cm^3

(Total for Question 4 is 2 marks)

5. Look at the diagram for Question 5 in the Diagram Booklet.

It shows a triangle.

(a) Work out the perimeter of the triangle.

(2 marks)

_____ **cm**

(continued on the next page)

5. continued.

(b) Work out the area of the triangle.

(2 marks)

_____ cm^2

(Total for Question 5 is 4 marks)

6. Work out

16% of 300

(Total for Question 6 is 2 marks)

7. Change £240 into dollars ($) using an exchange rate of £1 = $1·20

$_____

(Total for Question 7 is 2 marks)

8. (a) Find the value of

$\sqrt{841}$

(1 mark)

(b) Find the value of

17^3

(1 mark)

(continued on the next page)

8. continued.

(c) Work out the value of

$$5^3 \times 2^4$$

(2 marks)

(Total for Question 8 is 4 marks)

9. Derek invests £5000 for 3 years in an account paying simple interest at a rate of 2·5% per year.

Work out the total amount of simple interest paid to Derek by the end of the 3 years.

£_____

(Total for Question 9 is 3 marks)

10. Change 180 litres into gallons.

(1 gallon = 4·5 litres)

_____ gallons

(Total for Question 10 is 2 marks)

11. Work out

$$8\frac{1}{10} \div 2\frac{1}{4}$$

_____

(Total for Question 11 is 2 marks)

12. Last week Rayheem worked for 36 hours at £11·50 per hour.
He also worked 15 hours overtime at £20·20 per hour.

His deductions were

Income Tax	£143·30
National Insurance	£43·02

Work out how much Rayheem got paid last week after these deductions.
(4 marks)
Answer space continues on the next page.

12. continued.

£_____

(Total for Question 12 is 4 marks)

13. Look at the diagram for Question 13 in the Diagram Booklet.

A circle has a radius of 3 cm

Work out the circumference of the circle.

_____ **cm**

(Total for Question 13 is 3 marks)

14. Look at the diagram for Question 14 in the Diagram Booklet.

It shows an incomplete pie chart.

The table below gives the numbers of men, women and children that are on a train.

Men	**700**
Women	**800**
Children	**300**

Draw a pie chart in the Diagram Booklet for this information.

(Total for Question 14 is 4 marks)

15. Find the Highest Common Factor (HCF) of

48 and 80

(Total for Question 15 is 3 marks)

16. Look at the diagram for Question 16 in the Diagram Booklet.

It shows a shaded shape made from a rectangle and a semicircle.

The rectangle has a length of 18 cm and a width of 5 cm

The semicircle has a radius of 4 cm

Work out the area of the shaded shape.

(4 marks)

Answer space continues on the next page.

16. continued.

_____ cm^2

(Total for Question 16 is 4 marks)

17. In January 1990, a standard Edex chocolate bar had a weight of 65 grams.
In January 2020, a standard Edex chocolate bar had a weight of 50·7 grams.

Work out the loss in weight as a percentage of the January 1990 weight.

_____%

(Total for Question 17 is 3 marks)

18. Look at the diagram for Question 18 in the Diagram Booklet.

You may be provided with a model.

They are NOT accurate.

They show a cylinder.

The height of the cylinder is 8 cm

The radius of the cylinder is 5 cm

Work out the volume of the cylinder.

(3 marks)

Answer space continues on the next page.

18. continued.

_____ cm^3

(Total for Question 18 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS

END OF PAPER
