Paper Reference ANM20/2A
Pearson Edexcel Award

Number and Measure
Level 2
Section A
(Calculator)

Time: 1 hour

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

Surname	
Other names	
Centre Number	
Candidate Number	

Q69001A

Pearson

YOU MUST HAVE

Ruler, writing and drawing equipment, protractor, 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 3·142 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 in case you need them.

You may be provided with a model for Question 4

You may be provided with a model for Question 18

They are NOT accurate.

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)

_____

(continued on the next page)

1. continued.

    (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**

20·4 × 15·3

_____

(Total for Question 2 is 1 mark)

Turn over

3.   (a)   **Find the value of**

$$\sqrt{961}$$

(1 mark)

_____

(b)   **Find the value of**

$$18^3$$

(1 mark)

_____

(continued on the next page)

3. **continued.**

(c) **Work out the value of**

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

(2 marks)

_____

(Total for Question 3 is 4 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)

         _____ metres

Turn over

5. continued.

(b) **Work out the area of the triangle.**

(2 marks)

_____ m^2

(Total for Question 5 is 4 marks)

6.   (a) **Work out**

   9 – –2

   (1 mark)

_____

   (b) **Work out**

   −12 ÷ −3

   (1 mark)

_____

(continued on the next page)

6. continued.

(c) Work out

$$18 \times -2$$

(1 mark)

_____

(Total for Question 6 is 3 marks)

7.   **Work out**

   24% of **500**

_____

(Total for Question 7 is 2 marks)

8. Change **14·3** pounds into kilograms.

   (1 kilogram = 2·2 pounds)

   _____ kilograms

(Total for Question 8 is 2 marks)

Turn over

9. Sarah invests **£6000** for **2** 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 Sarah by the end of the **2** years.

£_____

(Total for Question 9 is 3 marks)

10. **Change £350 into Australian dollars.**

Use an exchange rate of £1 = 1·90 dollars.

_____ **dollars**

(Total for Question 10 is 2 marks)

Turn over

11. **Work out**

$$4\frac{1}{2} \div 3\frac{3}{4}$$

_____

(Total for Question 11 is 2 marks)

Turn over

12. Last week Sameena worked for **35** hours at **£11·50** per hour.

She also worked **8** hours overtime at **£17·25** per hour.

Her deductions were

Income Tax	**£27·05**
National Insurance	**£108·10**

Work out Sameena's total pay after these deductions.

(4 marks)

Answer space continues on the next page.

12. continued.

£_____

(Total for Question 12 is 4 marks)

Turn over

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

A circle has a diameter of **11 cm**

Work out the area of the circle.

_____ cm^2

(Total for Question 13 is 3 marks)

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

It shows a pie chart.

Ben has pens that are black or green or red or blue in a box.

He counts the number of pens of each colour in the box.

The pie chart in the Diagram Booklet shows Ben's results.

(continued on the next page)

14. continued.

Complete the frequency table below.

There are two spaces to fill.

COLOUR	FREQUENCY
black	56
green	10
red	
blue	

(Total for Question 14 is 3 marks)

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

   15 and 18

_____

(Total for Question 15 is 3 marks)

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

    It shows a shape.

    Work out the area of the shape.

    _____ cm^2

(Total for Question 16 is 4 marks)

Turn over

17. In March, the number of trains that arrived late at a station was **550**

    In April, the number of trains that arrived late at the station was **484**

    Work out the percentage decrease in the number of trains that arrived late at the station.

    _____%

(Total for Question 17 is 3 marks)

Turn over

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 **15 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^3**

(Total for Question 18 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS

END OF PAPER