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	

V66322A

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 – 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 paper 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 a model for Question 6

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 number line.

        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 number line.

Write down the number marked with the arrow.

(1 mark)

_____

(Total for Question 1 is 2 marks)

2. (a) **Work out**

$$12 \div -4$$

(1 mark)

_____

(b) **Work out**

$$-7 - -9$$

(1 mark)

_____

(continued on the next page)   **Turn over**

2. continued.

    (c) **Work out**

$$-8 + -4$$

    (1 mark)

_____

(Total for Question 2 is 3 marks)

3.   (a)   Find the value of

$$\sqrt{576}$$

(1 mark)

_____

(b)   Find the value of

$$13^3$$

(1 mark)

_____

Turn over

3. continued.

(c) Work out the value of

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

(2 marks)

_____

(Total for Question 3 is 4 marks)

Turn over

4. Change **5971** Icelandic krona into pounds **(£)** using an exchange rate of **£1 = 140** Icelandic krona.

£_____

(Total for Question 4 is 2 marks)

5.   **Work out**

21% of **4200**

_____

(Total for Question 5 is 2 marks)

6. Look at Diagram 1 and Diagram 2 for Question 6 in the Diagram Booklet. You may be provided with a model.

They show a cuboid.

Diagram 1 shows a front view of the cuboid.

Diagram 2 shows a side view of the cuboid.

The volume of this cuboid is

$720\,\text{cm}^3$

Work out the length of the cuboid.

(3 marks)

Answer space is on the next page.

6. **continued.**

(Total for Question 6 is 3 marks)

7.   **Look at the diagram for Question 7 in the Diagram Booklet.**

It shows a triangle.

Work out the perimeter of this triangle.

_____ **mm**

(Total for Question 7 is 2 marks)

8.   **Work out**

   $$42 \cdot 41 \times 7 \cdot 9$$

_____

(Total for Question 8 is 1 mark)

9. Sean works for a company selling car insurance.

He gets paid £18·50 for each hour he works.

He also gets paid £30·50 for each car he insures.

One week, Sean works for 28 hours and insures 16 cars.

He pays £190 tax on what he earns for the week.

(continued on the next page)

9.   continued.

Work out Sean's total pay after the deduction of tax.

(4 marks)

Answer space continues on the next page.

9. continued.

£_____

(Total for Question 9 is 4 marks)

10. Change **88 kg** into pounds.

(1 kg = 2·2 pounds)

_____ pounds

(Total for Question 10 is 2 marks)

11. **Work out**

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

_____

(Total for Question 11 is 2 marks)

Turn over

12. **Find the Lowest Common Multiple (LCM) of 25 and 80**

(3 marks)

Answer space continues on the next page.

12. continued.

_____

(Total for Question 12 is 3 marks)

13. John invests **£4000** for **3** 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 John by the end of the **3** years.

(3 marks)

Answer space continues on the next page.

13. continued.

£_____

(Total for Question 13 is 3 marks)

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

It shows a semicircle.

The semicircle has a radius of $8\,\text{cm}$

Work out the perimeter of the semicircle.

(3 marks)

Answer space continues on the next page.

14. continued

_____**cm**

(Total for Question 14 is 3 marks)

15. In **2019**, Sameena was paid a salary of **£20 600**

In **2020**, Sameena was paid a salary of **£23 896**

What is the percentage increase in the salary paid to Sameena?

(3 marks)

Answer space continues on the next page.

15. continued.

_____**%**

(Total for Question 15 is 3 marks)

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

    It shows a table.

    Tina is investigating the number of damaged apples in each of **30** boxes of apples.

    The table gives information about her results.

    Work out the total number of damaged apples in the **30** boxes.

    (3 marks)

    Answer space continues on the next page.

Turn over

16. continued.

(Total for Question 16 is 3 marks)

17. Look at the diagram for Question 17 in the Diagram Booklet.

It shows a shaded shape.

It is made by cutting a circle out of a square.

The square has sides of length 10 cm

The circle has radius 3 cm

Work out the area of the shaded shape.

(4 marks)

Answer space is on the next page.

Turn over

17. continued.

_____**cm^2**

(Total for Question 17 is 4 marks)

18. Look at Diagram 1, Diagram 2 and Diagram 3 for Question 18 in the Diagram Booklet.

You may be provided with a model.

They show a prism.

Diagram 1 shows a 3D view.

Diagram 2 shows a side view.

Diagram 3 shows a front view.

(i) Work out the area of the shaded face shown in Diagram 1

Answer space continues on the next page.

18. continued.

_____**cm**^{2}

(continued on the next page)

18. continued.

    (ii) Work out the volume of the prism.

_____cm^3

(Total for Question 18 is 4 marks)

TOTAL FOR SECTION A IS 50 MARKS

END OF PAPER