

Paper Reference ANM20/2A

Pearson Edexcel Award

Total Marks

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					

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.

Turn over

Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

6

- 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)

Turn over

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)

Turn over

2. Work out

$$20 \cdot 4 \times 15 \cdot 3$$

(Total for Question 2 is 1 mark)

Turn over

3. (a) Find the value of

$$\sqrt{961}$$

(1 mark)

(continued on the next page)

Turn over

3. continued.

(b) Find the value of

$$18^3$$

(1 mark)



(continued on the next page)

Turn over

3. continued.

(c) Work out the value of

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

(2 marks)

(Total for Question 3 is 4 marks)

Turn over

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.

(2 marks)

Answer space continues on the next page.

4. continued.

_____ 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)

Answer space continues on the next page.

5. (a) continued.

_____ metres

(continued on the next page)

Turn over

16

5. (b) Work out the area of the triangle.
(2 marks)

_____ m²

(Total for Question 5 is 4 marks)

Turn over

6. (a) Work out

$$9 - -2$$

(1 mark)

(continued on the next page)

Turn over

6. continued.

(b) Work out

$$-12 \div -3$$

(1 mark)

(continued on the next page)

Turn over

6. continued.

(c) Work out

$$18 \times -2$$

(1 mark)

(Total for Question 6 is 3 marks)

Turn over

20

7. Work out
24% of 500

(Total for Question 7 is 2 marks)

Turn over

21

- 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.

(3 marks)

Answer space continues on the next page.

9. continued.

£ _____

(Total for Question 9 is 3 marks)

Turn over

24

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

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

(2 marks)

Answer space continues on the next page.

Turn over

11. continued.

(Total for Question 11 is 2 marks)

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 two pages.

Turn over

12. continued.

Turn over

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.

(3 marks)

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

13. continued.

_____ cm^2

(Total for Question 13 is 3 marks)

Turn over

**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)

Turn over

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)

Turn over

34

**15. Find the Lowest Common Multiple
(LCM) of 15 and 18**

(Total for Question 15 is 3 marks)

Turn over

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

It shows a shape.

Work out the area of the shape.

(4 marks)

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

16. continued.

_____ 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.

(3 marks)

Answer space continues on the next page.

17. continued.

_____ %

(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 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
