Paper Reference ANM20/2A
Pearson
Edexcel Award

Total Marks

Number and Measure
Level 2
Section A
(Calculator)

Tuesday 7 January 2020 – Morning

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					

X63048A

Pearson

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 π button, take the value of π to be 3·142 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.

There may be spare copies of some diagrams.

You may be provided with models for Question 9 and Question 12

They are NOT accurate.

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 dial.

Write down the number marked with the arrow.

(1 mark)

_____

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

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

$$-30 \div -6$$

(1 mark)

(b) Work out

$$(8 - 6) - 5$$

(1 mark)

(c) Work out

$$-4 - -8$$

(1 mark)

(Total for Question 2 is 3 marks)

3. (a) Work out

$7 \cdot 8 \times 5 \cdot 04$

(1 mark)

(b) Write

$28 \cdot 2683$ correct to 2 decimal places.

(1 mark)

(Total for Question 3 is 2 marks)

4. Change $7 \cdot 5$ kg into pounds.

(1 kg = $2 \cdot 2$ pounds)

_____ pounds

(Total for Question 4 is 2 marks)

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

It is a right–angled triangle.

Work out the perimeter of this triangle.

_____ **cm**

(Total for Question 5 is 2 marks)

6. (a) Find the value of

25^3

(1 mark)

(b) Find the value of

$\sqrt{441}$

(1 mark)

(continued on the next page)

6. continued.

(c) Work out the value of

$$3^4 \times 4^3$$

(2 marks)

(Total for Question 6 is 4 marks)

7. Work out

15% of 600

_____

(Total for Question 7 is 2 marks)

8. Change 286 Croatian kuna into pounds (£)

Use an exchange rate of

£1 = 8 Croatian kuna.

£ _____

(Total for Question 8 is 2 marks)

9. Look at the model or at the diagram for Question 9 in the Diagram Book.

They show a cuboid.

You may be provided with a model.

The length is 8 cm

The width is 5 cm

The volume of the cuboid is 160 cm^3

Work out the height of the cuboid.

_____ **cm**

(Total for Question 9 is 2 marks)

10. Last week Rami worked for 40 hours at £10·80 per hour.

He also worked 5 hours overtime at £16·20 per hour.

His deductions were

National Insurance	£26·65
Income Tax	£102·60

Work out Rami's total pay after these deductions.

(4 marks)

Answer space continues on the next page.

10. continued.

£ _____

(Total for Question 10 is 4 marks)

11. Work out

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

(Total for Question 11 is 2 marks)

12. Look at the model or at the diagram for Question 12 in the Diagram Book.

They show a triangular prism.

You may be provided with a model.

Work out the volume of the prism.

_____ cm^3

(Total for Question 12 is 3 marks)

13. Find the Highest Common Factor (HCF) of

24 and 90

(Total for Question 13 is 3 marks)

14. Derek invests £1200 for 3 years in an account paying simple interest at a rate of 2% per year.

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

£ _____

(Total for Question 14 is 3 marks)

15. Look at the diagram for Question 15 in the Diagram Book.

It shows a shaded shape made by cutting a circle out of a square.

The square has sides of length 15 cm

The circle has radius 5 cm

Work out the area of the shaded shape.

_____ cm^2

(Total for Question 15 is 4 marks)

16. The price of Graham's rail season ticket for his journey to work in **2018** was **£2200**

The price of Graham's rail season ticket for his same journey to work in **2019** was **£2266**

What is the percentage increase in the price of Graham's rail season ticket?

_____ %

(Total for Question 16 is 3 marks)

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

It shows a pie chart and a frequency table.

Sally has counters which are red, blue, green or yellow.

The students in Sally's class were asked to choose which of these colours they liked best.

The pie chart shows Sally's results.

Complete the frequency table.

There are two spaces to fill.

(Total for Question 17 is 3 marks)

18. **Look at the diagram for Question 18 in the Diagram Book.**

It shows a shape.

These measurements are marked on the diagram:

6 cm, 8 cm, 20 cm, 8 cm, 3 cm

There are four right angles marked.

Work out the area of this shape.

(4 marks)

Answer space continues on the next page.

18. continued.

_____ cm^2

(Total for Question 18 is 4 marks)

TOTAL FOR SECTION A IS 50 MARKS

END OF PAPER
