

Paper Reference ANM20/2A
Pearson
Edexcel Award

Total Marks

Number and Measure
Level 2
Section A (Calculator)

Thursday 7 January 2021 – 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					

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.

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.

You may be provided with models for Question 3 and Question 18.

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.

Turn over

- 1. Look at the diagrams for Question 1(i) and Question 1(ii) in the Diagram Book.**

Write down the two numbers marked with arrows

(i) _____

(ii) _____

(Total for Question 1 is 2 marks)

2. (a) Find the value of

$$32^3$$

(1 mark)

(b) Find the value of

$$\sqrt{324}$$

(1 mark)

(continued on the next page)

Turn over

2. continued.

(c) Work out the value of

$$\sqrt{20^2 - 16^2}$$

(2 marks)

(Total for Question 2 is 4 marks)

Turn over

3. Look at the diagram for Question 3 in the Diagram Book.

You may be provided with a model.

A box is in the shape of the prism shown.

Each end of the prism is an 8-sided shape, shown shaded in the diagram.

The volume of the prism is 75 cm^3

The length of the prism is 6 cm

Work out the area of one of the 8-sided ends of the prism.

(2 marks)

Answer space is on the next page.

Turn over

3. continued.

_____ **cm²**

(Total for Question 3 is 2 marks)

Turn over

4. (a) Work out
 $+4 \times -7$
(1 mark)
-

- (b) Work out
 $-3 + -5$
(1 mark)
-

(Total for Question 4 is 2 marks)

Turn over

5. Change £250 into Argentine pesos using an exchange rate of £1 = 23 Argentine pesos.

_____ pesos

(Total for Question 5 is 2 marks)

**6. (a) Write 87.7392 correct to
2 decimal places.**

(1 mark)

(continued on the next page)

6. continued.

(b) Work out

$$6.42 \times 5.3$$

(1 mark)

(Total for Question 6 is 2 marks)

Turn over

- 7. Look at the diagram for Question 7 in the Diagram Book.**

**It shows a triangle with sides marked
17 cm, 8 cm and 15 cm**

One right angle is marked.

- (a) Work out the perimeter of the triangle.**

(2 marks)

Answer space continues on the next page.

7. (a) continued.

_____ **cm**

(continued on the next page)

Turn over

7. continued.

(b) Work out the area of the triangle.

(2 marks)

_____ **cm²**

(Total for Question 7 is 4 marks)

Turn over

8. Change 150 cm into feet.
(1 foot = 30 cm)

_____ feet

(Total for Question 8 is 2 marks)

9. Work out

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

(Total for Question 9 is 2 marks)

Turn over

10. Waheed pays 12% National Insurance on the money he earns each month.

One month he earns £1400

Work out how much National Insurance he pays.

(2 marks)

Answer space continues on the next page.

10. continued.

£ _____

(Total for Question 10 is 2 marks)

Turn over

11. Sam makes small and large flower displays.

He gets £12·50 for each small flower display he sells.

He gets £18·50 for each large flower display he sells.

Last week he sold

25 small flower displays

18 large flower displays

He paid £129·15 tax on the total amount of money he got last week.

(continued on the next page)

Turn over

11. continued.

Work out how much money Sam got to keep last week after the deduction of tax.

(4 marks)

Answer space continues on the next page.

Turn over

11. continued.

£ _____

(Total for Question 11 is 4 marks)

Turn over

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

It shows a semicircle with a diameter of 11 cm

Work out the perimeter of the semicircle.

(3 marks)

Answer space continues on the next page.

12. continued.

_____ **cm**

(Total for Question 12 is 3 marks)

Turn over

13. Look at the table for Question 13 in the Diagram Book.

Martin sells bags of apples.

The table gives information about the total weight of the apples in each bag and the number of bags of each total weight that Martin sells.

Work out the total weight of the apples that Martin sells.

(3 marks)

Answer space continues on the next page.

Turn over

13. continued.

_____ kg

(Total for Question 13 is 3 marks)

Turn over

- 14. Sameena invests £2000 for 2 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 Sameena by the end of the 2 years.

(3 marks)

Answer space continues on the next page.

14. continued.

£ _____

(Total for Question 14 is 3 marks)

Turn over

30

**15. Find the Lowest Common Multiple
(LCM) of 36 and 45**

(Total for Question 15 is 3 marks)

Turn over

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

It shows a rectangle inside a rectangle.

The outer rectangle has length 22 cm and width 20 cm

The inner rectangle has length 16 cm and width 7 cm

Work out the area of the shaded region.

(4 marks)

Answer space continues on the next two pages.

16. continued.

Turn over

16. continued.

_____ **cm²**

(Total for Question 16 is 4 marks)

Turn over

17. The number of cars failing an MOT test at a garage in 2018 was 1075

The number of cars failing an MOT test at the garage in 2019 was 946

What is the percentage decrease in the number of cars failing an MOT test at the garage?

(3 marks)

Answer space continues on the next page.

17. continued.

_____ %

(Total for Question 17 is 3 marks)

Turn over

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

You may be provided with a model.

They show a cylinder.

The height of the cylinder is 13 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
