Please check the examination details below before entering your candidate information

Candidate surname		Other names

Centre Number	Candidate Number

Pearson Edexcel Award

Time 1 hour

Paper reference	**ANM20/2A**

Number and Measure
Level 2
Section A (Calculator)

You must have:
Ruler, protractor, calculator.

YOU WILL BE GIVEN:
Diagram Booklet
Model for Question 6
Model for Question 18

Total Marks

Instructions

- Write your name, centre number and candidate number on your answer paper
- Answer **ALL** questions.
- Answer the questions on your answer paper.
- **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 paper is 50
- The marks for **EACH** question are shown in brackets, for example [2 marks]
  – *use this as a guide as to how much time to spend on each question.*

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.
- [A contents page for this examination paper will be found as a separate booklet. This is to assist the candidate in locating selected books]

*Turn over* ▶

P66322A0112

Section A

Answer ALL questions.

Write your answers on your answer paper.

You must write down all the stages in your working.

1 (a) Look at the diagram for Question 1(a) in the diagram booklet.

Write down the number marked with the arrow. [1 mark]

22   23
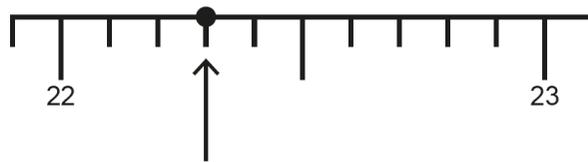
(b) Look at the diagram for Question 1(b) in the diagram booklet.

Write down the number marked with the arrow. [1 mark]

33   34   35
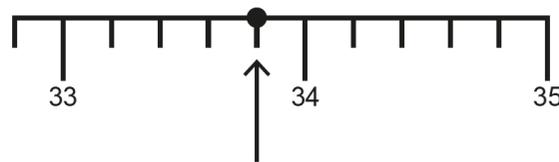
(Total for Question 1 is 2 marks)

2 (a) Work out $12 \div -4$ [1 mark]

(b) Work out $-7 - -9$ [1 mark]

(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]

(c) Work out the value of $2^5 \times 4^2$ [2 marks]

(Total for Question 3 is 4 marks)

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

Write your answer in pounds (£).

(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, diagram 2 and the model for Question 6 in the diagram booklet.
They show a cuboid. It is 6cm wide and 8 cm high.
Diagram 1 shows the front of the cuboid
Diagram 2 shows the side of the cuboid.

The volume of this cuboid is $720\,cm^3$.

Work out the length of the cuboid.

Diagram 1

8 cm

length

Diagram 2

8 cm

6 cm
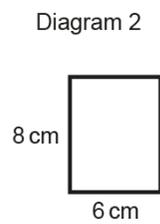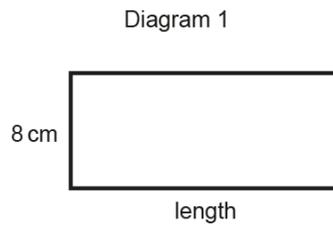
(Total for Question 6 is 3 marks)

7 Look at the diagram for Question 7 in the diagram booklet. It shows a right-angled triangle.

Work out the perimeter of this triangle.

Write your answer in mm.

65 mm

97 mm

72 mm
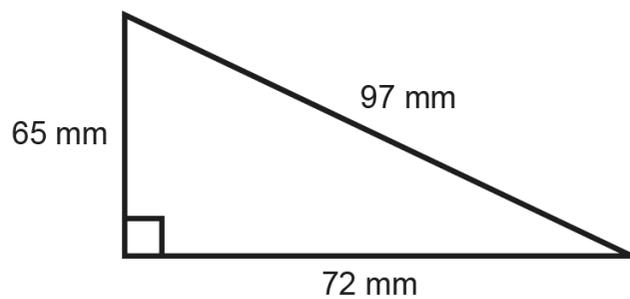
(Total for Question 7 is 2 marks)

8 Work out 42.41×7.9

(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.

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

Write your answer in pounds (£).

(Total for Question 9 is 4 marks)

10 Change 88 kg into pounds.
$(1 \, \text{kg} = 2.2 \, \text{pounds})$

Write your answer in pounds.

(Total for Question 10 is 2 marks)

P 6 6 3 2 2 A 0 5 1 2

11 Work out $5\frac{1}{2} \div 2\frac{1}{5}$

(Total for Question 11 is 2 marks)

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

(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.

Write your answer in pounds (£).

(Total for Question 13 is 3 marks)

14 Look at the diagram for Question 14 in the diagram booklet.

A semicircle has a radius of 8 cm.

Work out the perimeter of the semicircle.

Write your answer in cm.

8 cm
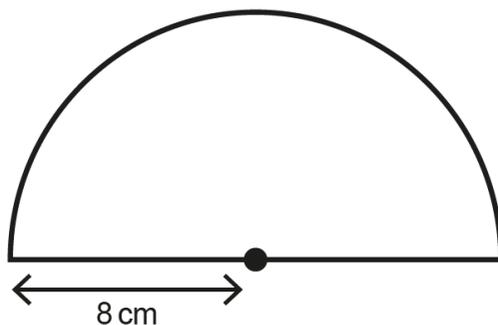
(Total for Question 14 is 3 marks)

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?

Write your answer as a percentage (%).

(Total for Question 15 is 3 marks)

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

The table below gives information about her results.

Number of damaged apples	Number of boxes
2	16
3	8
4	5
5	1

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

(Total for Question 16 is 3 marks)

P 6 6 3 2 2 A 0 8 1 2

17 Look at the diagram for Question 17 in the diagram booklet. It shows a shaded shape which 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.

Write your answer in cm².
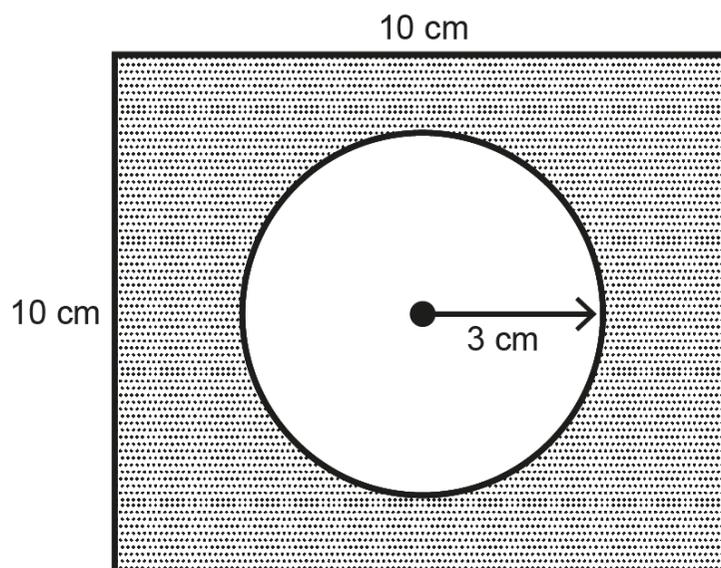
(Total for Question 17 is 4 marks)

18 Look at diagram 1, diagram 2 and the model for Question 18 in the diagram booklet. They show a prism. Diagram 1 shows the side view. Diagram 2 shows the front view.

(i) Work out the area of the side view shown in diagram 1. Write your answer in cm². [2 marks]

(ii) Work out the volume of the prism. Write your answer in cm³. [2 marks]

Diagram 1

12 cm

4 cm

5 cm

Diagram 2

12 cm

4 cm

9 cm
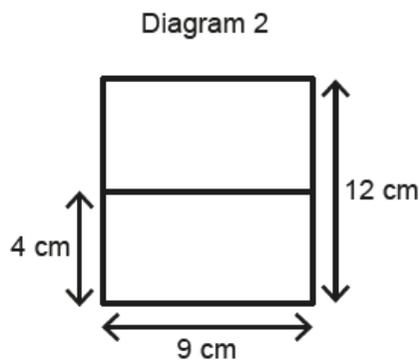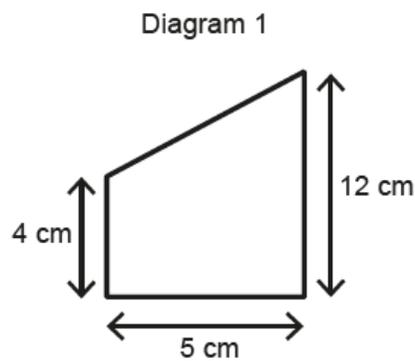
(Total for Question 18 is 4 marks)

TOTAL FOR SECTION A IS 50 MARKS

END OF PAPER

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