Pearson Edexcel Award

Time 1 hour

Paper reference **ANM20/2A**

Number and Measure

Level 2
Section A (Calculator)

You must have: Ruler graduated in centimetres and millimetres, protractor, pen, HB pencil, eraser, calculator.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *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 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*.

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 ▶

Pearson

Section A

Answer ALL questions.

Write your answers in the spaces provided.
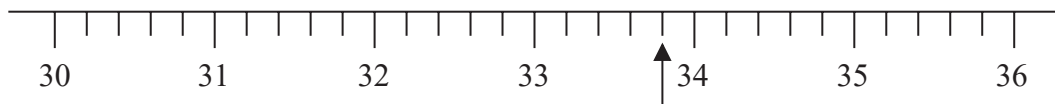
You must write down all the stages in your working.

1 (a)

Write down the number marked with the arrow.

....

(1)

(b)

Write down the number marked with the arrow.

....

(1)

(Total for Question 1 is 2 marks)

2 (a) Work out $12 \div -4$

....

(1)

(b) Work out $-7 - -9$

....

(1)

(c) Work out $-8 + -4$

....

(1)

(Total for Question 2 is 3 marks)

3 (a) Find the value of $\sqrt{576}$

....
(1)

(b) Find the value of 13^3

....
(1)

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

....
(2)

(Total for Question 3 is 4 marks)

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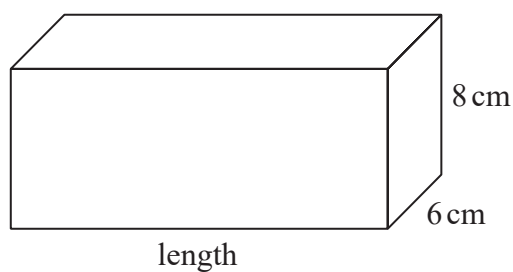
£..

(Total for Question 4 is 2 marks)

5 Work out 21% of 4200

....

(Total for Question 5 is 2 marks)

6

8 cm

6 cm

length

The volume of this cuboid is 720 cm³.

Work out the length of the cuboid.

....

(Total for Question 6 is 3 marks)

7

97 mm

65 mm

72 mm
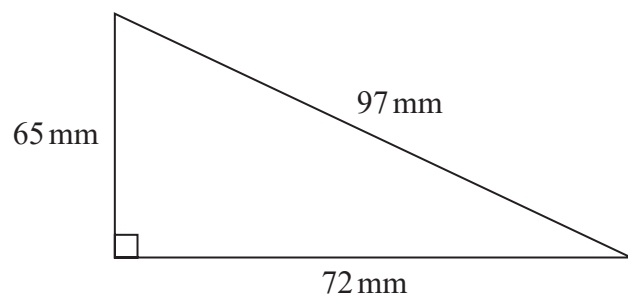
Work out the perimeter of this triangle.

....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.

£...

(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)

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.

£...

(Total for Question 13 is 3 marks)

14 A semicircle has a radius of 8 cm.

Work out the perimeter of the semicircle.

8 cm
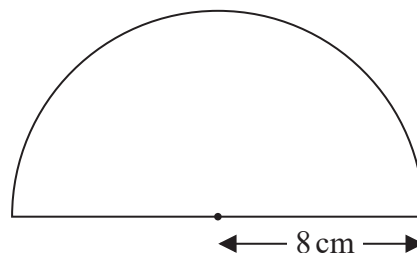
....cm

(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?

....%

(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 gives information about her results.

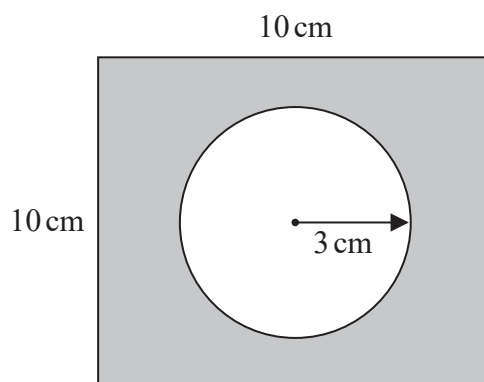| Number of damaged apples	Number of boxes
2	16
3	8
4	5
5	1

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

....

(Total for Question 16 is 3 marks)

17 This shaded shape is made by cutting a circle out of a square.

10 cm

10 cm

3 cm

The square has sides of length 10 cm.
The circle has radius 3 cm.

Work out the area of the shaded shape.

....cm^2

(Total for Question 17 is 4 marks)

18 Here is a prism.
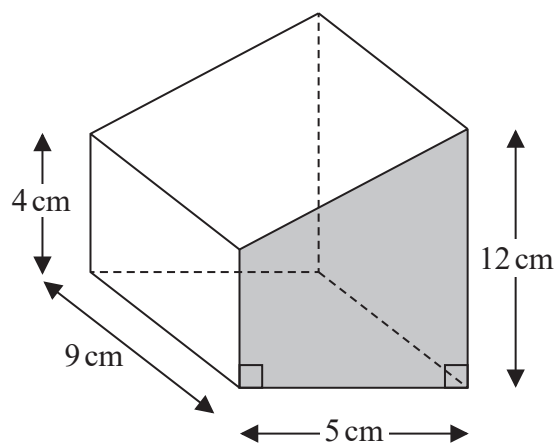
(i) Work out the area of the shaded face.

....cm^2

(ii) Work out the volume of the prism.

....cm^3

(Total for Question 18 is 4 marks)

TOTAL FOR SECTION A IS 50 MARKS

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