

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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## 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  $\pi$  button, take the value of  $\pi$  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.

### 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 ►

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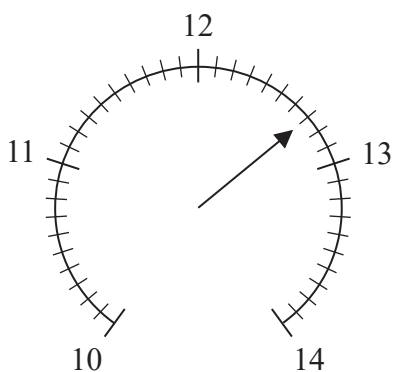
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

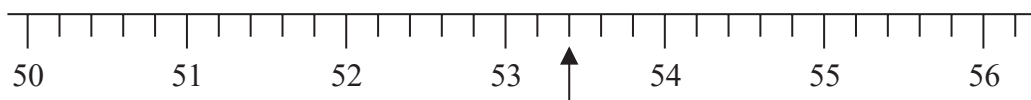
1 (a)



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 Work out  $20.4 \times 15.3$

.....

(Total for Question 2 is 1 mark)



3 (a) Find the value of  $\sqrt{961}$

.....  
(1)

(b) Find the value of  $18^3$

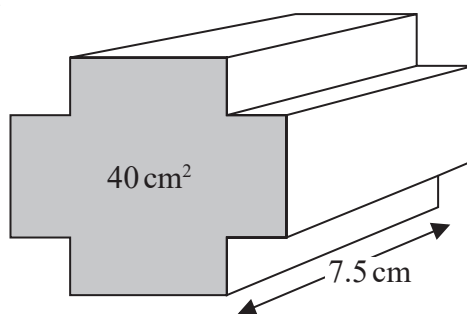
.....  
(1)

(c) Work out the value of  $3^4 \times 2^5$

.....  
(2)

**(Total for Question 3 is 4 marks)**

4 Find the volume of this prism.

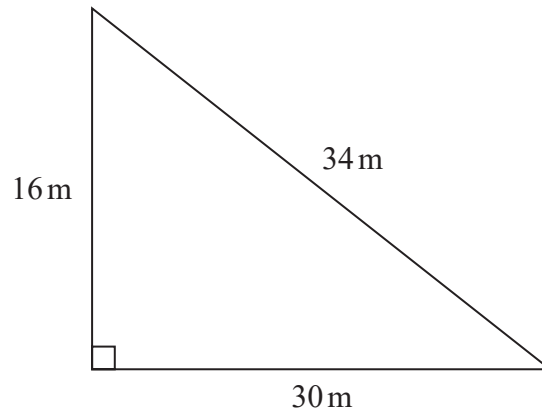


..... cm<sup>3</sup>

**(Total for Question 4 is 2 marks)**



5 Here is a triangle.



(a) Work out the perimeter of the triangle.

..... m  
(2)

(b) Work out the area of the triangle.

..... m<sup>2</sup>  
(2)

(Total for Question 5 is 4 marks)



6 (a) Work out  $9 - -2$

.....  
(1)

(b) Work out  $-12 \div -3$

.....  
(1)

(c) Work out  $18 \times -2$

.....  
(1)

**(Total for Question 6 is 3 marks)**

7 Work out 24% of 500

.....  
**(Total for Question 7 is 2 marks)**

8 Change 14.3 pounds into kilograms.  
(1 kilogram = 2.2 pounds)

..... kilograms

**(Total for Question 8 is 2 marks)**



- 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.

£.....

(Total for Question 9 is 3 marks)

- 10 Change £350 into Australian dollars.  
Use an exchange rate of £1 = 1.90 dollars.

..... dollars

(Total for Question 10 is 2 marks)

- 11 Work out  $4\frac{1}{2} \div 3\frac{3}{4}$

.....

(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

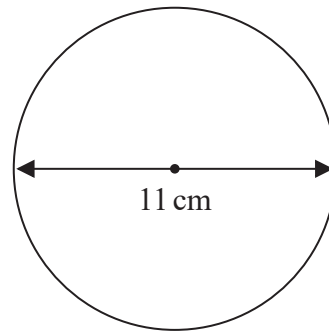
Work out Sameena's total pay after these deductions.

£.....

(Total for Question 12 is 4 marks)

- 13 A circle has a diameter of 11 cm.

Work out the area of the circle.



..... cm<sup>2</sup>

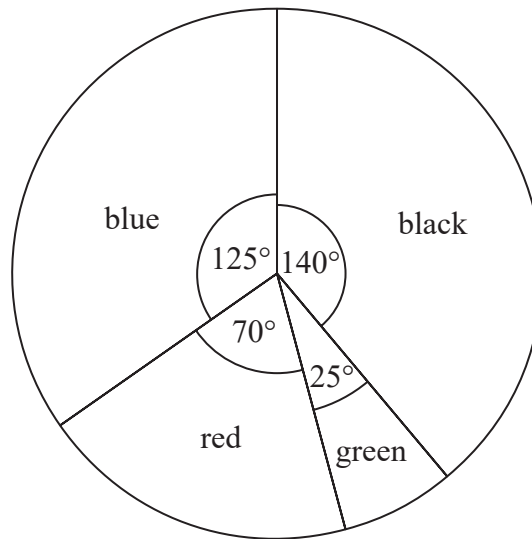
(Total for Question 13 is 3 marks)



14 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.

Here is Ben's pie chart of his results.



Complete the frequency table.

Colour	Frequency
black	56
green	10
red	
blue	

(Total for Question 14 is 3 marks)

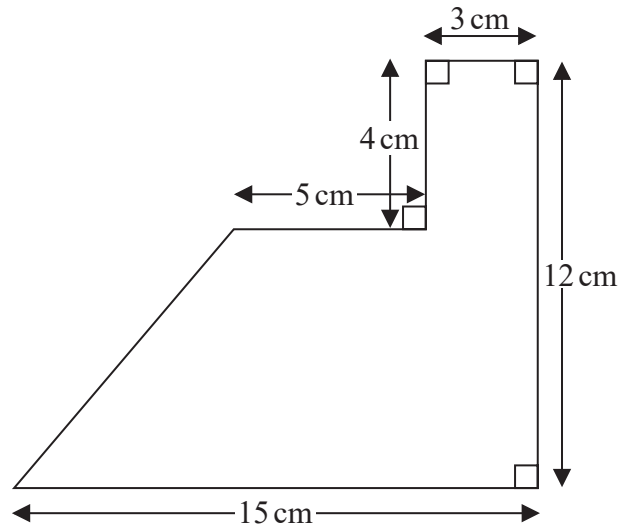
15 Find the Lowest Common Multiple (LCM) of 15 and 18

(Total for Question 15 is 3 marks)





16



Work out the area of this shape.

..... cm<sup>2</sup>

**(Total for Question 16 is 4 marks)**

- 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.

.....%

**(Total for Question 17 is 3 marks)**

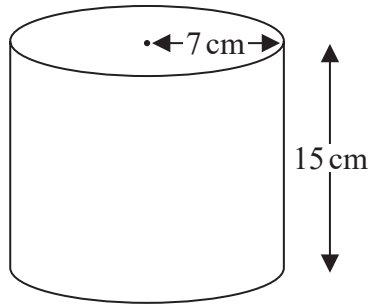
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18 Here is a cylinder.



The height of the cylinder is 15 cm.  
The radius of the cylinder is 7 cm.

Work out the volume of the cylinder.

..... cm<sup>3</sup>

(Total for Question 18 is 3 marks)

**TOTAL FOR SECTION A IS 50 MARKS**

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