

Write your name here

Surname

Other names

Pearson
Edexcel Award

Centre Number

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Candidate Number

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Number and Measure

Level 2

Section A (Calculator)

Tuesday 13 January 2015 – Morning

Time: 1 hour

Paper Reference

ANM20/2A

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 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.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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PEARSON

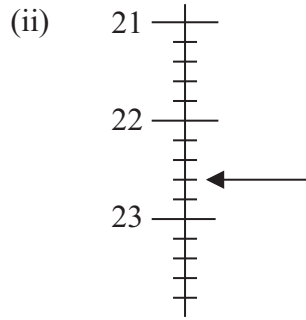
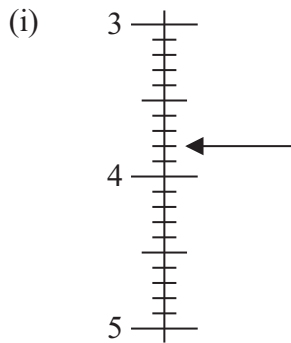
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1 Write down the numbers marked with arrows.



(Total for Question 1 is 2 marks)

2 Adam, Bilal and Charlie share some counters in the ratio 2:5:7
They have a total of 210 counters.

How many counters does Charlie get?

.....
(Total for Question 2 is 3 marks)

3 Work out $1655.28 \div 1.32$

.....
(Total for Question 3 is 1 mark)



4 (a) Find the value of $\sqrt{121}$

.....
(1)

(b) Find the value of 4^4

.....
(1)

(c) Write the number 2.7777 to 2 decimal places.

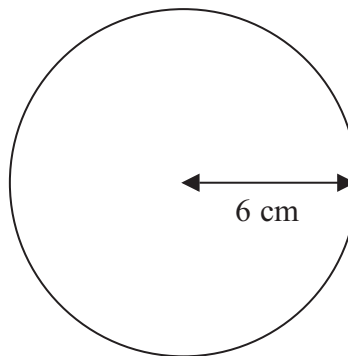
.....
(1)

(d) Work out $\sqrt{5^2 + 12^2}$

.....
(2)

(Total for Question 4 is 5 marks)

5



A circle has a radius of 6 cm.
Work out the circumference of the circle.

..... cm

(Total for Question 5 is 3 marks)



6 In a box there are 12 apples and 30 oranges.

Write down the ratio of the number of apples to the number of oranges.
Give your answer in its simplest form.

.....

(Total for Question 6 is 2 marks)

7 Change £120 into South African Rand.
Use an exchange rate of £1 = 14 South African Rand.

..... South African Rand

(Total for Question 7 is 2 marks)

8 A coat has a price of £80
The price is reduced by 15% in a sale.

What is the sale price of the coat?

£.....

(Total for Question 8 is 3 marks)



9 Find the Lowest Common Multiple (LCM) of 20 and 42

.....
(Total for Question 9 is 3 marks)

10 Here is a triangular prism.

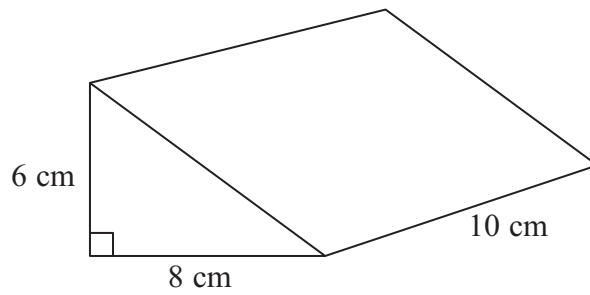


Diagram **NOT**
accurately drawn

Work out the volume of the prism.

..... cm³

(Total for Question 10 is 3 marks)



11 Katy invests £700 for 4 years in an account paying simple interest at a rate of 5.7% per year.

Work out how much is in the account at the end of 4 years.

£.....

(Total for Question 11 is 3 marks)

12

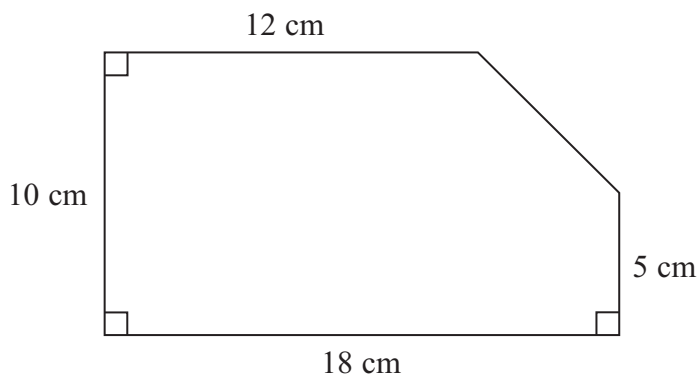


Diagram **NOT** accurately drawn

Work out the area of the shape.

..... cm²

(Total for Question 12 is 4 marks)

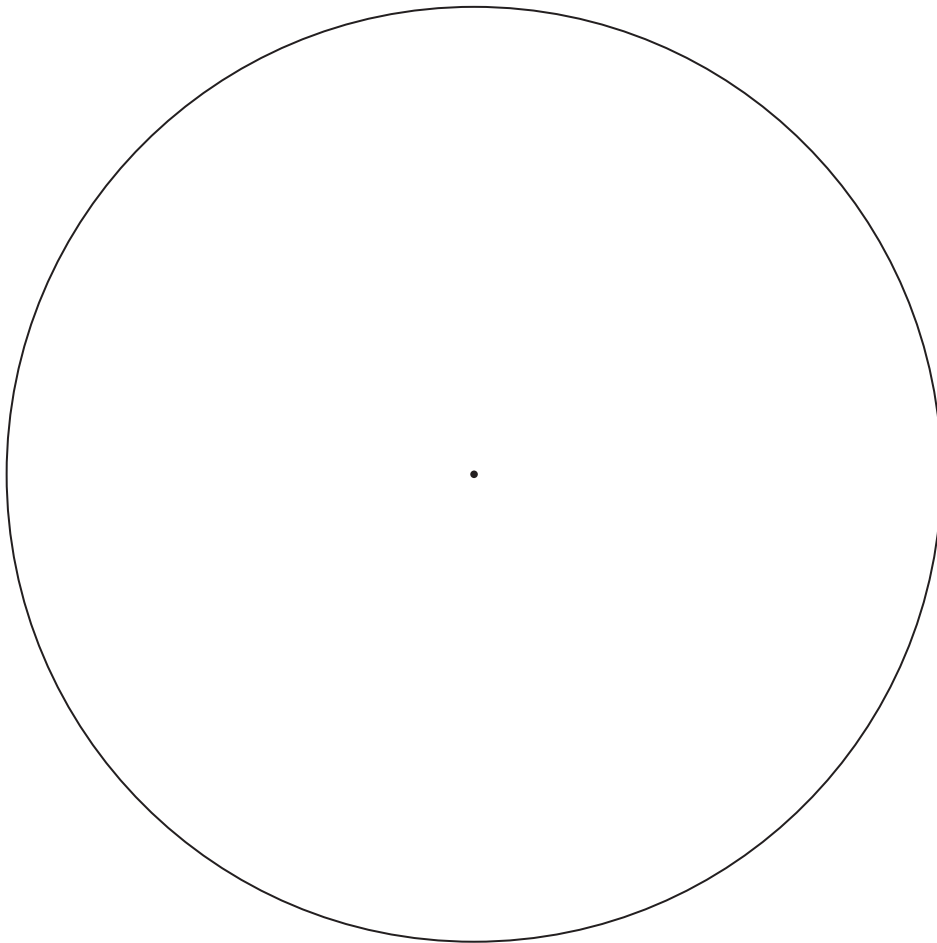


13 Pigs, cows and sheep are sold at a market.

This table shows how many are sold on one day.

Pigs	160
Cows	110
Sheep	130

Draw a pie chart for this information.



(Total for Question 13 is 4 marks)



14 Work out $5\frac{2}{5} \div 2\frac{1}{4}$

.....
(Total for Question 14 is 2 marks)

15 In the evenings Saleem works as a waitress.
She gets paid £7.50 for each hour she works as a waitress.

At the weekend Saleem works in a shop.
She gets paid £8.15 for each hour she works in the shop.

One week she works for 15 hours as a waitress and for 13 hours in the shop.
She pays £43.30 tax on what she earns for the week.

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

£.....

(Total for Question 15 is 4 marks)



16 The price of a car increases from £8000 to £9440

What is the percentage increase in the price?

.....%

(Total for Question 16 is 3 marks)

17 Here is a trough in the shape of a semi-circular prism.

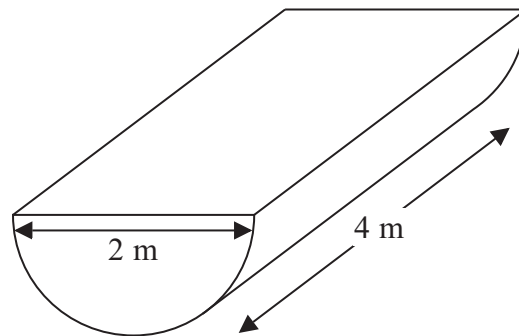


Diagram NOT accurately drawn

The width of the trough is 2 m.
The length of the trough is 4 m.

Work out the volume of the trough.

.....m³

(Total for Question 17 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS



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