

Write your name here

Surname

Other names

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Edexcel Award

Centre Number

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Candidate Number

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Number and Measure

Level 2

Section A (Calculator)

Tuesday 7 January 2014 – 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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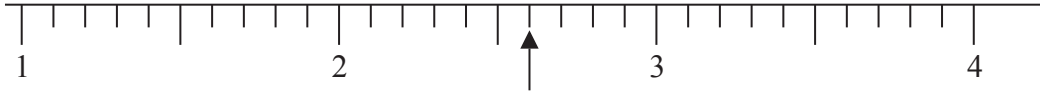
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

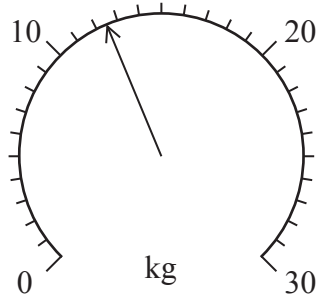
1 (a)



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 $1459.28 \div 2.9$

.....
(Total for Question 2 is 1 mark)



3 Divide 126 in the ratio 4 : 5

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

4 Increase 450 by 18%

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

5 Find the Lowest Common Multiple (LCM) of 24 and 30

.....
(Total for Question 5 is 3 marks)



6 (a) Find the value of $\sqrt{5.29}$

.....
(1)

(b) Write the number 57.984 to 2 decimal places.

.....
(1)

(c) Find the value of 5^5

.....
(1)

(d) Work out $\sqrt{15^2 - 9^2}$

.....
(2)

(Total for Question 6 is 5 marks)

7

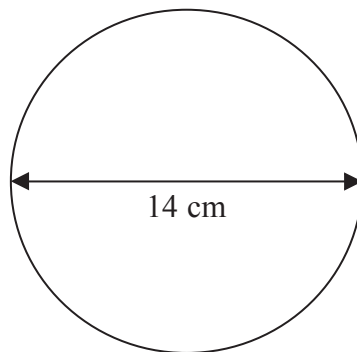


Diagram **NOT**
accurately drawn

A circle has a diameter 14 cm.
Work out the circumference of the circle.

..... cm

(Total for Question 7 is 3 marks)



8 Change \$123.25 into pounds (£) using an exchange rate of £1 = \$1.45

£.....

(Total for Question 8 is 2 marks)

9 In a class of 24 students there are 9 boys and 15 girls.

Write down the ratio of the number of boys to the number of girls.
Give your answer in its simplest form.

.....
(Total for Question 9 is 2 marks)

10 Josie invests £600 for 3 years in an account paying simple interest at a rate of 4.5% per year.

Work out how much is in the account at the end of 3 years.

£.....

(Total for Question 10 is 3 marks)



11 Sally uses flowers to make displays and bouquets.

She earns £3.50 for each display she makes.
She earns £2.70 for each bouquet she makes.

One day she makes 24 displays and 13 bouquets.
She pays £23.80 tax on what she earns for the day.

How much does she get to keep for the day's work?

£.....

(Total for Question 11 is 4 marks)

12 Here is a triangular prism.

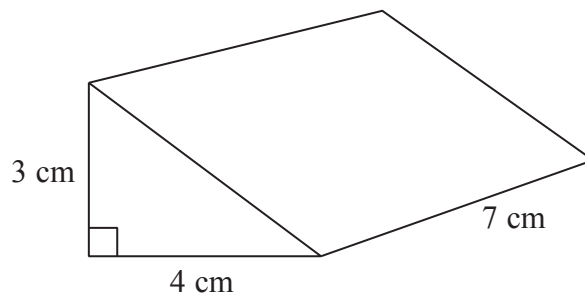


Diagram **NOT**
accurately drawn

Work out the volume of the prism.

..... cm³

(Total for Question 12 is 3 marks)

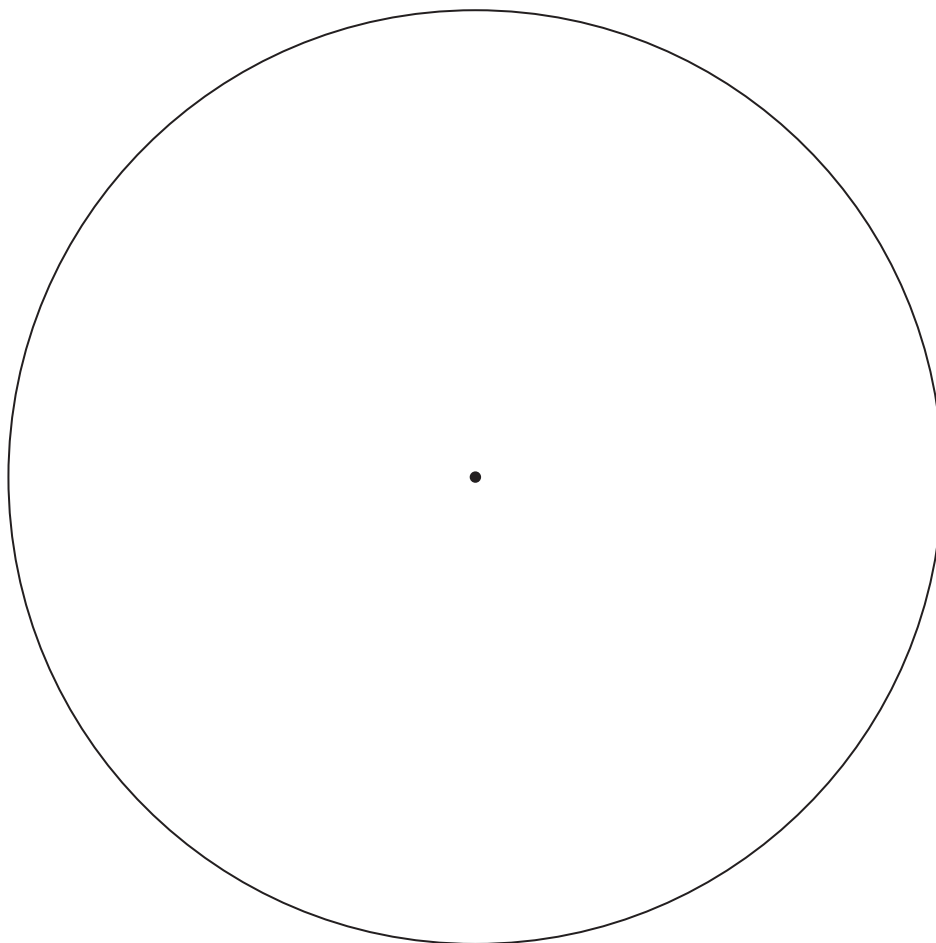


13 A pets' home has dogs, cats and other animals.

This table shows numbers of dogs, cats and other animals that stayed in the pets' home during one year.

Dogs	260
Cats	200
Other animals	140

Draw a pie chart for this information.



(Total for Question 13 is 4 marks)



14 Work out $6\frac{3}{5} \div 2\frac{3}{4}$

.....

(Total for Question 14 is 2 marks)

15 Here is a rectangle inside a rectangle.

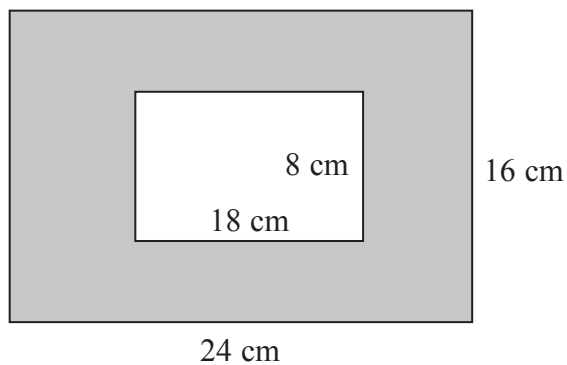


Diagram **NOT** accurately drawn

Work out the area of the shaded region.

..... cm²

(Total for Question 15 is 4 marks)



16 The amount of water in a tank increases from 40 litres to 58 litres.

What is the percentage increase in the amount of water in the tank?

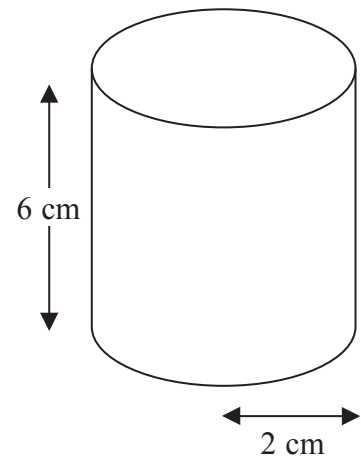
.....%

(Total for Question 16 is 3 marks)

17 Here is a cylinder.

The cylinder has a height of 6 cm
and a radius of 2 cm.

Diagram **NOT**
accurately drawn



Work out the volume of this cylinder.

..... cm³

(Total for Question 17 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS



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Write your name here

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Number and Measure
Level 2
Section B (Non-Calculator)

Tuesday 7 January 2014 – Morning
Time: 30 minutes

Paper Reference

ANM20/2B

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

Total Marks

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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 must not be used.**



Information

- The total mark for this section is 30
- The total mark for this paper is 80
- 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.

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Section B

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

- 1 (a) Write these numbers in order of size.
Start with the smallest number.

1 -3 -5 2 -4 3

.....
(1)

- (b) Work out $43.65 + 3.7 + 209 - 28.87$

.....
(2)

- (c) Work out $1000 - 237$

.....
(2)

(Total for Question 1 is 5 marks)



2 (a) Work out $-3 \times +2$

.....
(1)

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

.....
(1)

(Total for Question 2 is 2 marks)

3 (a) Which is bigger, $\frac{3}{4}$ of 84 cm or $\frac{2}{3}$ of 90 cm?

.....
(3)

(b) Write 40 as a fraction of 50
Give your answer in its simplest form.

.....
(2)

(Total for Question 3 is 5 marks)



4 9 rulers of the same type cost £1.80

What is the cost of 7 rulers of this type?

£.....

(Total for Question 4 is 3 marks)

5 (a) Work out 2.4×37

.....
(3)

(b) Work out $37.94 \div 7$

.....
(2)

(Total for Question 5 is 5 marks)



6 Michael has worked out $\frac{5.7 \times 39.1}{0.48}$ on his calculator.

His answer is 464.3125

Using suitable approximations, check that his answer is sensible.

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

7 Use 5 miles = 8 km to change 60 km into miles.

..... miles

(Total for Question 7 is 2 marks)



8 (a) Work out $6\frac{2}{3} - 3\frac{1}{4}$

Give your answer as a mixed number in its simplest form.

.....
(3)

(b) Work out $1\frac{2}{7} \times \frac{3}{5}$

Give your answer in its simplest form.

.....
(2)

(Total for Question 8 is 5 marks)

TOTAL FOR SECTION B IS 30 MARKS
TOTAL FOR PAPER IS 80 MARKS



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