

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 9 January 2018 – 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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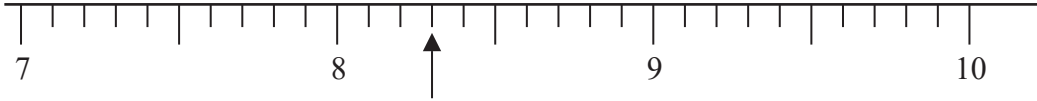
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

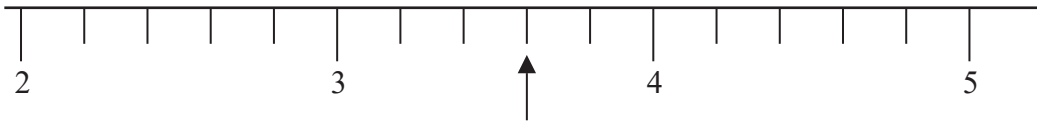
1 (a)



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) Find the value of 35^3

.....
(1)

(b) Work out the value of $\sqrt{7^2 + 24^2}$

.....
(2)

(Total for Question 2 is 3 marks)

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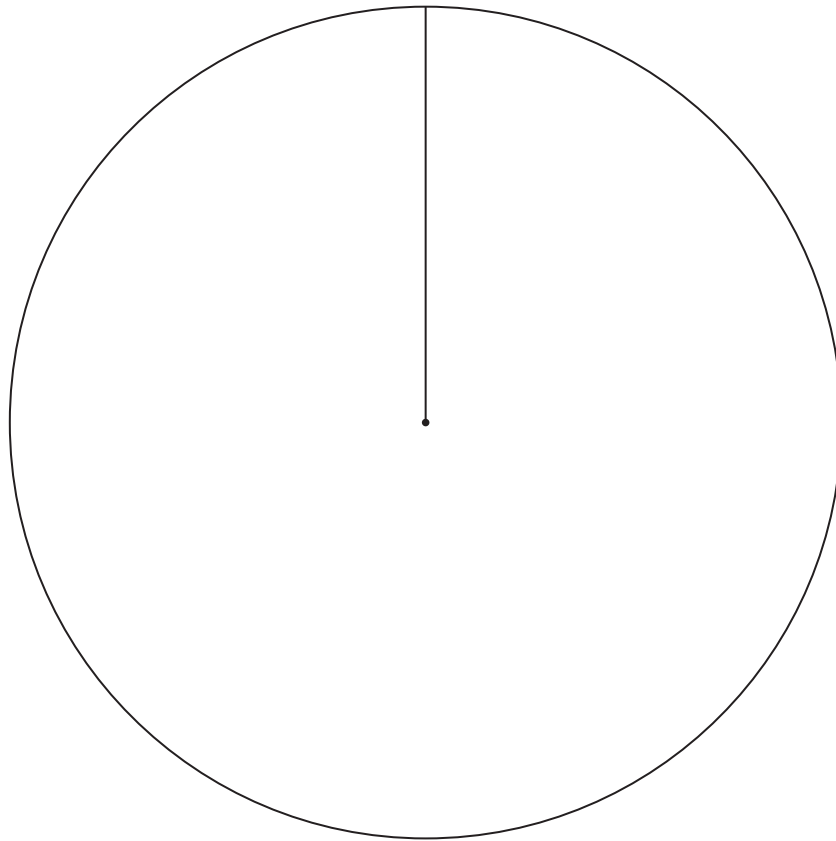
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3 This table shows the number of tracks of each type of music on Ben's phone.

Type of music	Frequency
Rock	40
Pop	30
Classical	20

Draw a pie chart for this information.



(Total for Question 3 is 4 marks)



4 (a) Work out 6.84×2.75

.....
(1)

David buys a pack of 5 identical pens for £3.99

(b) Work out the cost of one pen.
Give your answer to the nearest penny.

.....
(2)

(Total for Question 4 is 3 marks)

5 Last week Annie worked for 30 hours at £10.65 per hour.
She also worked 8 hours overtime at £15.98 per hour.

Her deductions were

National Insurance	£ 6.20
Income tax	£30.96

Work out how much Annie got paid last week after these deductions.

£.....

(Total for Question 5 is 4 marks)

6 Change 100 miles into kilometres.
(5 miles = 8 km)

..... km

(Total for Question 6 is 2 marks)

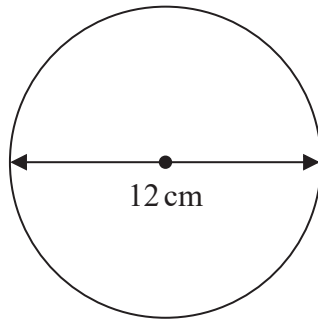


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7



A circle has a diameter of 12 cm.
Work out the area of the circle.

..... cm²

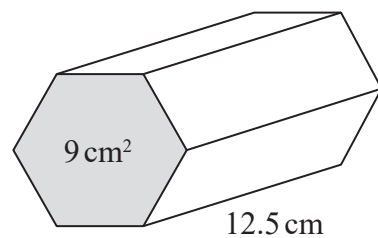
(Total for Question 7 is 3 marks)

8 Find the Lowest Common Multiple (LCM) of 18 and 48

.....

(Total for Question 8 is 3 marks)

9 Work out the volume of this prism.



..... cm³

(Total for Question 9 is 2 marks)

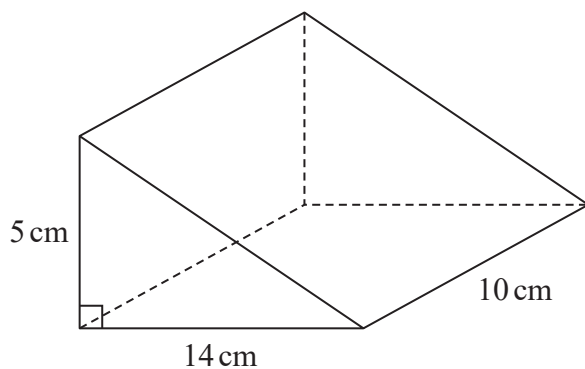


10 Tom invests £400 for 3 years in an account paying simple interest at a rate of 2% per year.
Work out the total amount of simple interest paid to Tom by the end of the 3 years.

£.....

(Total for Question 10 is 3 marks)

11 Here is a triangular prism.



Work out the volume of the prism.

..... cm³

(Total for Question 11 is 3 marks)



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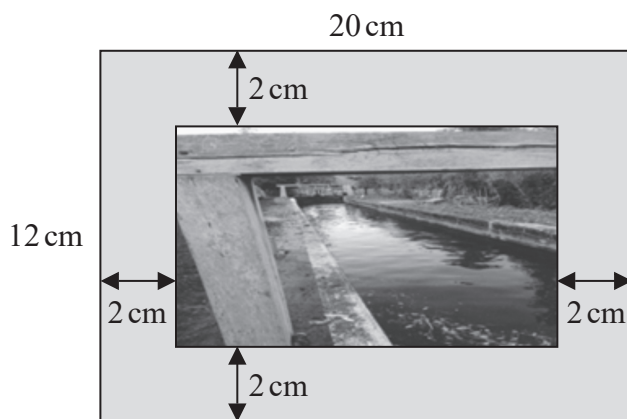
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12 Work out $5\frac{1}{4} \div 2\frac{4}{5}$

.....

(Total for Question 12 is 2 marks)

13 The diagram shows a shaded border around a rectangular picture.



The outside of the border is 20 cm by 12 cm.
The border is 2 cm wide.

Find the area of the shaded border.

..... cm²

(Total for Question 13 is 4 marks)



14 Jerry came back from holiday and changed \$150 into pounds (£).
The exchange rate was £1 = \$1.25

Work out how many pounds he got.

£.....

(Total for Question 14 is 2 marks)

15 Divide 120 in the ratio 3:2

.....

(Total for Question 15 is 2 marks)

16 Which is bigger

$\frac{2}{3}$ of 72 or 70% of 70?

You must show all your working.

.....

(Total for Question 16 is 3 marks)



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17 Sapha throws an ordinary 6-sided dice a number of times.
Here are her results.

Score	Frequency
1	5
2	6
3	8
4	7
5	9
6	10

Work out Sapha's total score from all her throws of the dice.

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

18 Rachel sold 25 cars last month.
This month she sold 30 cars.

What is the percentage increase in the number of cars Rachel sold?

.....%
(Total for Question 18 is 2 marks)

TOTAL FOR SECTION A IS 50 MARKS



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Number and Measure

Level 2

Section B (Non-Calculator)

Tuesday 9 January 2018 – 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.

Turn over ►

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Section B

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

You must NOT use a calculator for this section.

1 (a) Work out $3000 - 1274$

.....
(2)

(b) Work out $72.6 + 35.57 - 89.78 - 5.61$

.....
(2)

(Total for Question 1 is 4 marks)

2 Write these numbers in order of size.
Start with the smallest number.

5 0 -4 -7 6 -2 -5

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

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3 (a) Work out 5.36×6

.....
(2)

(b) Write the number 15.9572 correct to 2 decimal places.

.....
(1)

(Total for Question 3 is 3 marks)

4 (a) Write 72 minutes as a fraction of 3 hours.
Give your answer in its simplest form.

.....
(2)

(b) Write 32 as a percentage of 80

.....%
(2)

(Total for Question 4 is 4 marks)



5 Work out an estimate that could be used to check the value of

$$\frac{7.9 \times 18.9}{0.49}$$

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

6 5 cups of tea cost £7.50

How much would 3 cups of tea cost?

£.....

(Total for Question 6 is 3 marks)

7 (a) Work out $5 + -9$

.....
(1)

(b) Work out $7 - -2$

.....
(1)

(c) Work out -3×5

.....
(1)

(d) Work out $-12 \div -4$

.....
(1)

(Total for Question 7 is 4 marks)



- 8 The price of a car is £2750
In a sale, the price is reduced by 20%

Work out the price of the car in the sale.

£.....

(Total for Question 8 is 3 marks)

- 9 Work out $\frac{2}{3} \times \frac{4}{5}$

.....

(Total for Question 9 is 1 mark)

- 10 There are 20 boys and 32 girls on a college course.

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

.....

(Total for Question 10 is 2 marks)



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

Give your answer as a mixed number.

.....
(Total for Question 11 is 2 marks)

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

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