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Candidate Number

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Number and Measure

Level 1

Section A (Calculator)

Tuesday 10 January 2017 – Morning

Time: 1 hour

Paper Reference

ANM10/1A

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) Use your calculator to work out $91.4 + 3.27 - 8.73$

.....
(1)

- (b) Use your calculator to work out $1.62 \div 0.45$

.....
(1)

- (c) Use your calculator to work out 14.25×0.24

.....
(1)

(Total for Question 1 is 3 marks)

- 2 (a) Change 3 hours and 21 minutes into minutes.

..... minutes
(1)

- (b) Write down a metric unit that can be used to give

(i) the weight of a bag of crisps,

(ii) the amount of medicine needed for a child.

.....
(2)

(Total for Question 2 is 3 marks)

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3 Here is part of a calendar for March 2017

| March 2017 | | | | | | |
|------------|-----|------|------|-------|-----|-----|
| Sun | Mon | Tues | Weds | Thurs | Fri | Sat |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(a) What day of the week is the 27th March 2017?

.....
(1)

(b) What is the date three weeks after the 21st March 2017?

.....
(2)

(Total for Question 3 is 3 marks)



4 (a) Write the number 457 to the nearest 100

.....
(1)

(b) Write $\frac{2}{5}$ as a decimal.

.....
(1)

(c) Work out $\frac{5}{9}$ of 450

.....
(2)

(d) Find 20% of 525

.....
(2)

(Total for Question 4 is 6 marks)

5 Tim bought

4 bars of chocolate at £1.45 each

2 packets of sweets at 79p each

1 bunch of flowers for £4.59

How much money did Tim spend?

£.....

(Total for Question 5 is 3 marks)

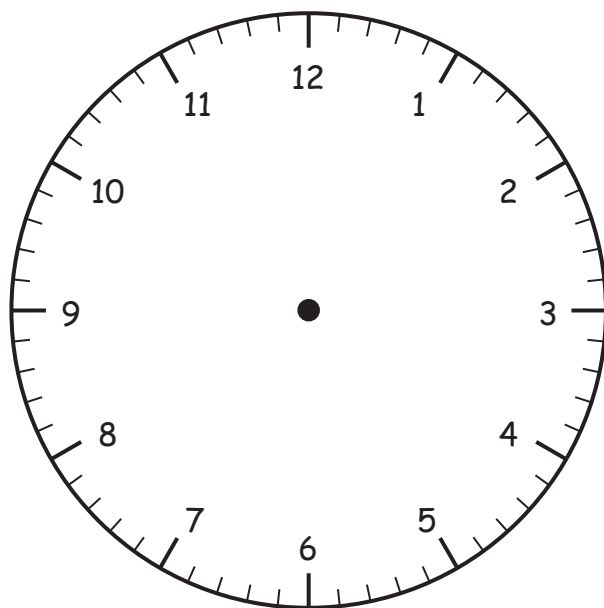


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6 Here is a clock face.



(a) Show a time of quarter to five on the clock.

(2)

Simon watched a film on television one evening.

The film started at 20 25
The film finished at 22 10

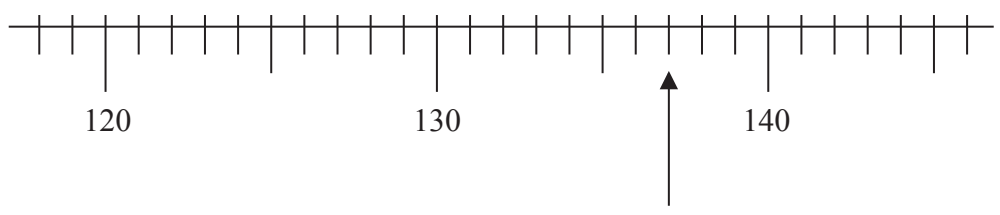
(b) How long did the film last?

.....
(2)

(Total for Question 6 is 4 marks)

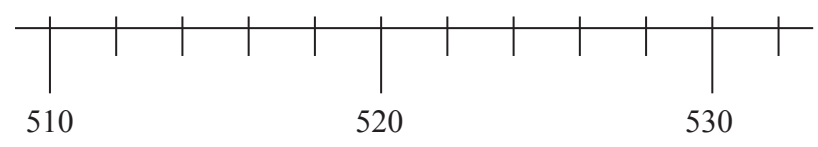


7



(a) Write down the number shown by the arrow.

.....
(1)

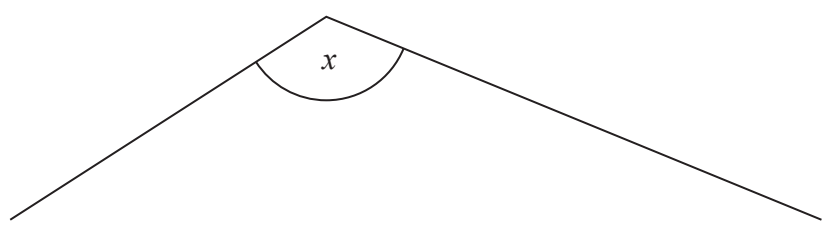


(b) On the scale, mark with an arrow (↑) the number 524

(1)

(Total for Question 7 is 2 marks)

8



(a) Measure the size of the angle marked x

.....
(1)

(b) In the space below, draw a straight line 11 cm long.

(1)

(Total for Question 8 is 2 marks)



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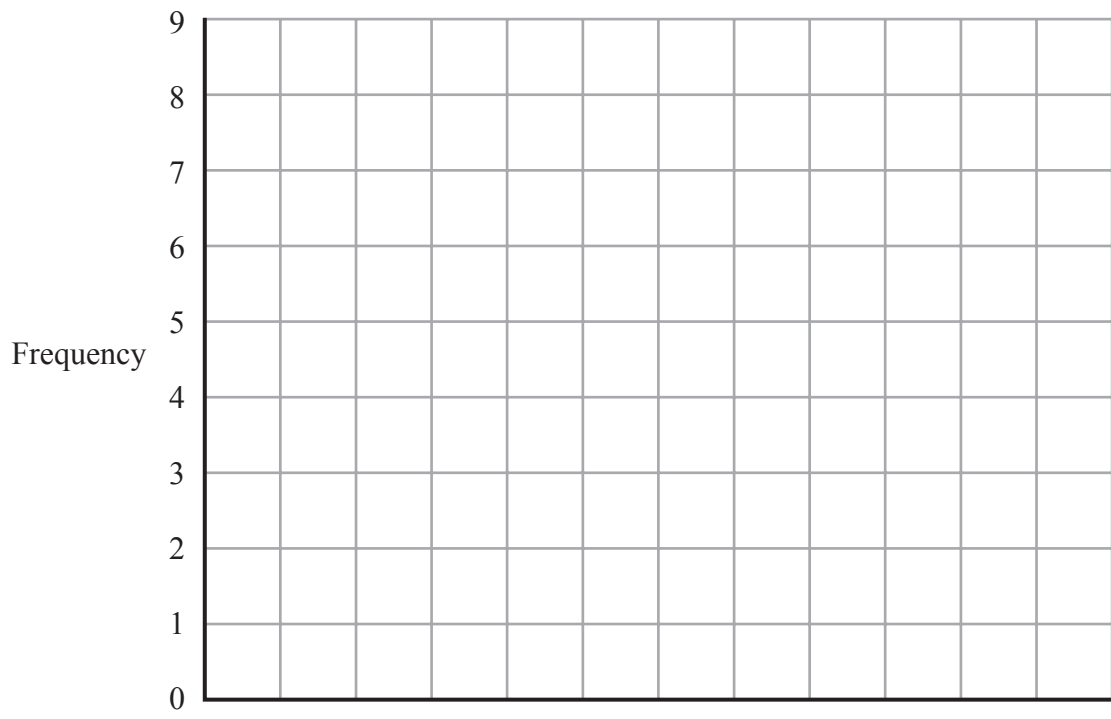
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9 Each of the students on a school trip wore a T-shirt.
The table gives information about the colours of the T-shirts the students wore.

| Colour | Frequency |
|--------|-----------|
| White | 4 |
| Black | 8 |
| Red | 3 |
| Green | 6 |
| Blue | 7 |

(a) On the grid, draw a bar chart to show this information.



(3)

(b) Which colour of T-shirt was the most popular?

.....

(1)

(c) How many students went on the school trip?

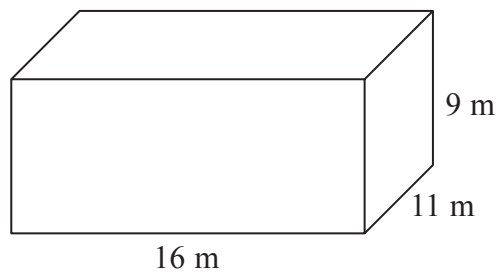
.....

(2)

(Total for Question 9 is 6 marks)



10 Here is a cuboid.

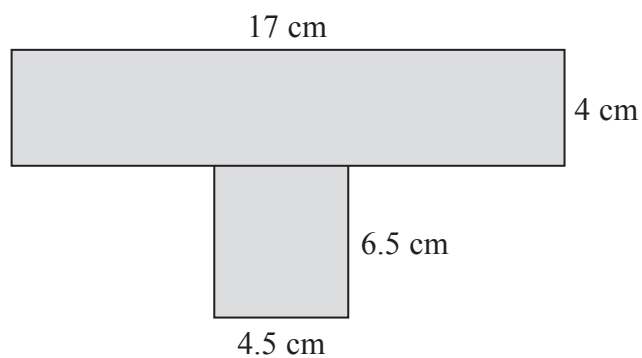


Work out the volume of the cuboid.

..... m³

(Total for Question 10 is 2 marks)

11 Here is a shaded shape made from two rectangles.



Work out the total area of the shaded shape.

..... cm²

(Total for Question 11 is 3 marks)



12 (a) Write down a multiple of 18

.....
(1)

(b) Write down a common factor of 24 and 64

.....
(1)

(c) Write down the prime number that is greater than 11 and less than 17

.....
(1)

(Total for Question 12 is 3 marks)

13 Mrs Knight buys a pack of pencils for £8.55
The 24 pencils in the pack are all the same.

What is the cost of one of these pencils?
Give your answer to the nearest penny.

.....
(Total for Question 13 is 3 marks)

14 (a) Change 5000 grams into kilograms.

..... kilograms
(1)

(b) Change 6.3 centimetres into millimetres.

..... millimetres
(1)

(c) Work out $3\text{ m } 62\text{ cm} + 5\text{ m } 57\text{ cm} - 1\text{ m } 35\text{ cm}$

.....
(2)

(Total for Question 14 is 4 marks)



15 Here is information from Frank's water bill.

Water Company

Water bill for 12 June 2016 - 10 December 2016

| | |
|----------------------------------|--------------------------|
| New reading on 10 December 2016 | 823 m ³ |
| Previous reading on 12 June 2016 | 762 m ³ |
| Volume used | m ³ |
| Cost of water | £1.42 per m ³ |

Work out the total cost of the water Frank used.

.....
(Total for Question 15 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS

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Number and Measure

Level 1

Section B (Non-Calculator)

Tuesday 10 January 2017 – Morning
Time: 30 minutes

Paper Reference

ANM10/1B

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

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 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 $417 + 2136 + 38$

.....
(2)

(b) Work out $9.3 - 4.64$

.....
(2)

(c) Work out $329 \div 7$

.....
(2)

(d) Work out 534×6

.....
(2)

(Total for Question 1 is 8 marks)

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2 (a) Work out $\frac{4}{11} + \frac{3}{11}$

.....
(1)

(b) Here are some fractions.

$\frac{1}{2}$ $\frac{2}{8}$ $\frac{3}{16}$ $\frac{5}{8}$ $\frac{1}{4}$

(i) Which of these fractions is the smallest?

.....

(ii) Write down the two fractions that are equivalent.

..... and
(2)

(Total for Question 2 is 3 marks)

3 (a) Work out 79×1000

.....
(1)

(b) Work out $54 \div 9$

.....
(1)

(c) Write the number **seven hundred and eighty five** in figures.

.....
(1)

(Total for Question 3 is 3 marks)



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

11 83 101 4 38

.....
(1)

- (b) Write these percentages in order of size.
Start with the smallest percentage.

96% 45% 10% 69% 7%

.....
(1)

- (c) Here is a list of decimals.

2.04 2.87 2.17 2.67 2.07 2.77

- (i) From the list, write down a decimal that is between 2.6 and 2.8

.....

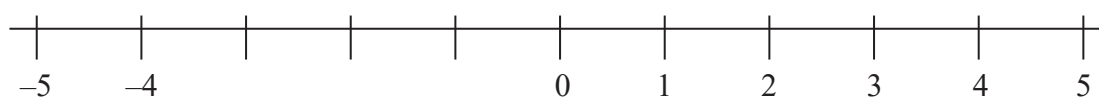
- (ii) From the list, write down a different decimal that is between 2.6 and 2.8

.....

(2)

(Total for Question 4 is 4 marks)

- 5 Here is a number line with three numbers missing.



- (a) Write the three missing numbers in the correct places.

.....
(1)

- (b) Work out $3 - 7$

.....

(1)

- (c) Work out $-4 + 6$

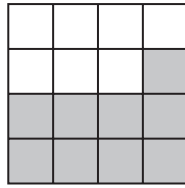
.....

(1)

(Total for Question 5 is 3 marks)



6



(a) What fraction of this shape is shaded?

.....
(1)

(b) Write $\frac{10}{25}$ as a fraction in its simplest form.

.....
(1)

(c) Write $\frac{3}{4}$ as a percentage.

..... %
(1)

(d) Write 0.3 as a fraction.

.....
(1)

(Total for Question 6 is 4 marks)

7 Colin buys 6 tins of paint at £9.85 each.

Which of these amounts gives a sensible estimate for the total cost?

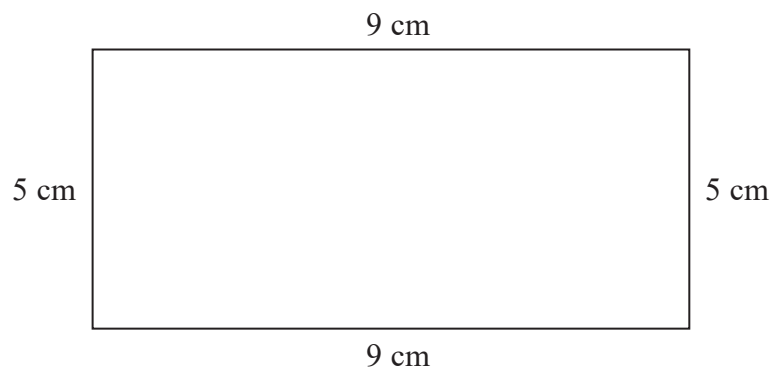
- A £36
- B £48
- C £60
- D £80
- E £100

.....

(Total for Question 7 is 1 mark)



8 Here is a rectangle.



(i) Work out the perimeter of the rectangle.

..... cm

(ii) Work out the area of the rectangle.

..... cm²

(Total for Question 8 is 4 marks)

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



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