

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel Award

Number and Measure

Level 2

Section A (Calculator)

Thursday 9 May 2013 – 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 (a) Work out $-2 \times +3$

.....
(1)

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

.....
(1)

(Total for Question 1 is 2 marks)

2 Work out $324.7 \div 1.6$

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

3 Divide 63 in the ratio 3 : 4

..... and

(Total for Question 3 is 3 marks)



4 Here is a triangle.

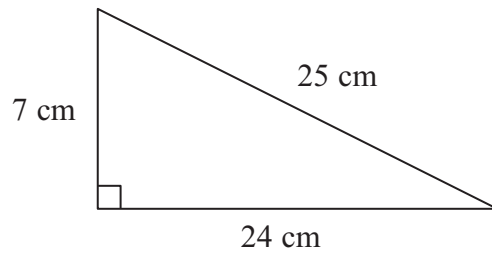


Diagram **NOT**
accurately drawn

(a) Work out the perimeter of the triangle.

..... cm
(2)

(b) Work out the area of the triangle.

..... cm²
(2)

(Total for Question 4 is 4 marks)



5 Change £200 into dollars (\$) using an exchange rate of £1 = \$1.55

\$.....

(Total for Question 5 is 2 marks)

6 (a) Find the value of $\sqrt{3.24}$

.....
(1)

(b) Find the value of 4^5

.....
(1)

(c) Work out 89.65×34.27

.....
(2)

(Total for Question 6 is 4 marks)



7

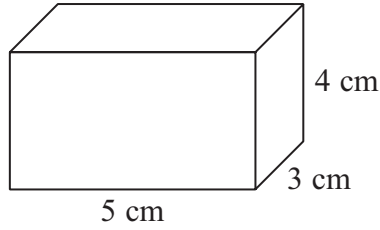


Diagram **NOT**
accurately drawn

Work out the volume of this cuboid.

..... cm³

(Total for Question 7 is 2 marks)

8 Work out 14% of 300

.....

(Total for Question 8 is 2 marks)

9 Change 5 kg into pounds.
(1 kg = 2.2 pounds)

..... pounds

(Total for Question 9 is 2 marks)



10 In a class of 30 students there are 14 boys and 16 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 10 is 2 marks)

11 Peter makes circuit boards.

For up to 30 circuit boards, he earns £2.50 for each circuit board he makes in a day.
When he makes more than 30 circuit boards in any day, he earns £2.75 for every extra
circuit board he makes.

One day he makes 45 circuit boards.
He pays £23.20 tax on what he earns for the day.

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

£.....

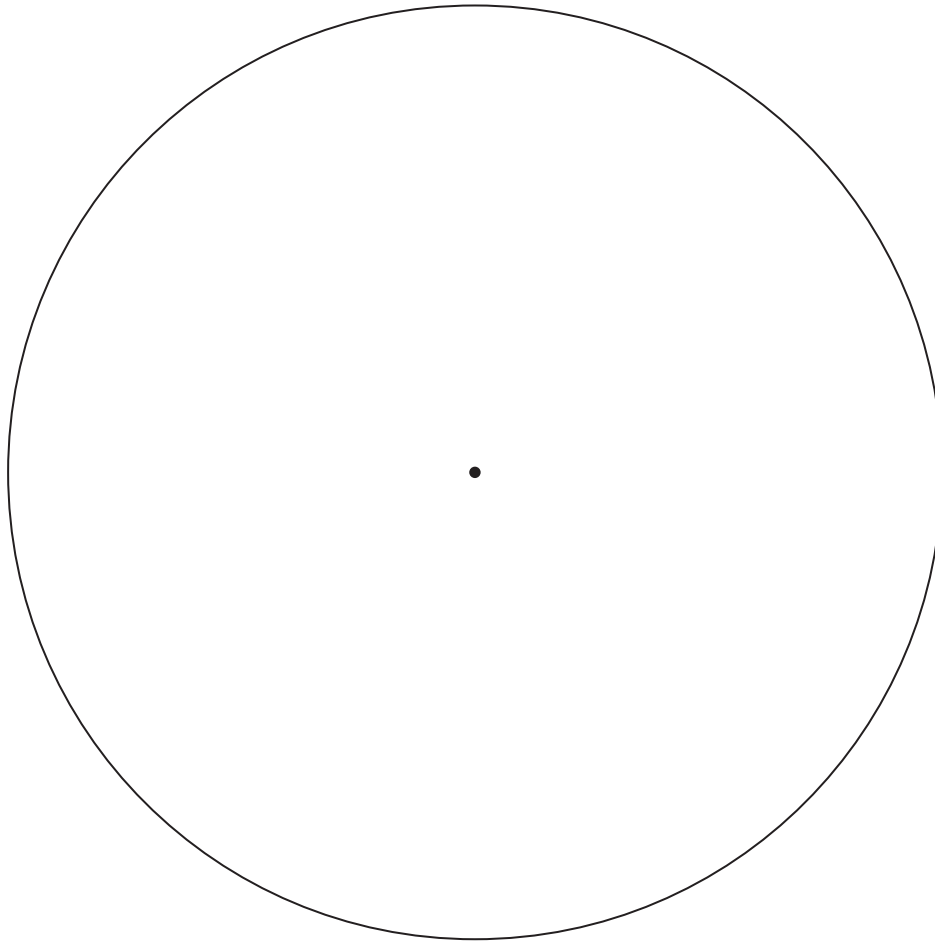
(Total for Question 11 is 4 marks)



12 This table shows numbers of men, women and children on a ferry.

Men	400
Women	300
Children	200

Draw a pie chart for this information.



(Total for Question 12 is 4 marks)



13 Work out $8\frac{1}{10} \div 2\frac{1}{2}$

(Total for Question 13 is 2 marks)

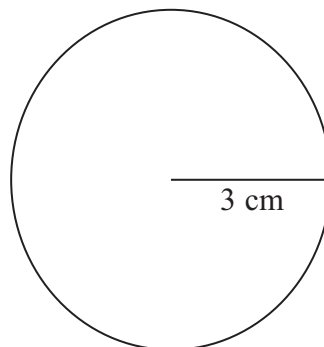
14 Find the Highest Common Factor (HCF) of 60 and 75

(Total for Question 14 is 3 marks)



- 15 A circle has a radius of 3 cm.
Work out the area of the circle.

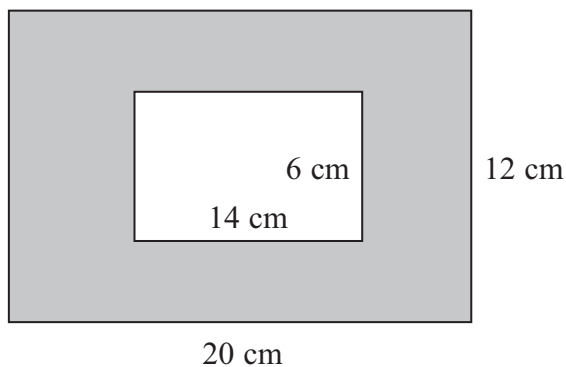
Diagram **NOT**
accurately drawn



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

- 16 Here is a rectangle inside a rectangle.

Diagram **NOT**
accurately drawn



Work out the area of the shaded region.

..... cm²

(Total for Question 16 is 4 marks)



17 A play-pit contains sand.
More sand is put into this play-pit.
The weight of sand increases from 50 kg to 55 kg.

What is the percentage increase in the weight of sand?

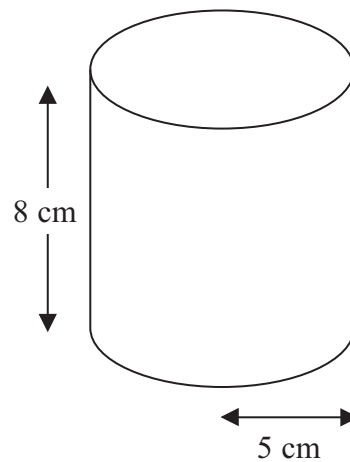
.....%

(Total for Question 17 is 3 marks)

18 Here is a cylinder.
The cylinder has a height of 8 cm
and a radius of 5 cm.

Work out the volume of this cylinder.

Diagram **NOT**
accurately drawn



..... cm³

(Total for Question 18 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS



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Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel Award

Number and Measure

Level 2

Section B (Non-Calculator)

Thursday 9 May 2013 – Morning

Time: 30 minutes

Paper Reference

ANM20/2B

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 stages in your working.

You must NOT use a calculator in this section.

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

3 -1 -3 5 -2 6

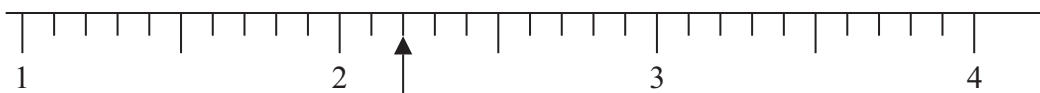
.....
(1)

- (b) Write 54.748 correct to 2 decimal places.

.....
(1)

(Total for Question 1 is 2 marks)

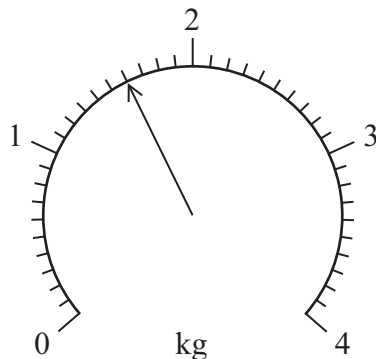
- 2 (a)



Write down the number marked with the arrow.

.....
(1)

- (b)



Write down the number marked with the arrow.

.....
(1)

(Total for Question 2 is 2 marks)



3 (a) Work out $5000 \div 25$

.....
(2)

(b) Work out $1000 - 23.7$

.....
(2)

(Total for Question 3 is 4 marks)

4 Work out 80 as a percentage of 200

.....%

(Total for Question 4 is 2 marks)



5 (a) Which is bigger, $\frac{1}{4}$ of 80 or $\frac{1}{3}$ of 45?

.....
(3)

(b) Write 20 as a fraction of 100
Give your answer in its simplest form.

.....
(2)

(Total for Question 5 is 5 marks)

6 6 pens of the same type cost £1.80
What is the cost of 5 pens of this type?

£.....

(Total for Question 6 is 3 marks)



7 An answer of 466 has been given to the calculation $\frac{7.8 \times 29.3}{0.49}$

Use suitable approximations to check whether this answer is sensible.

(Total for Question 7 is 3 marks)

8 Work out 3.42×2.4

(Total for Question 8 is 3 marks)



9 (a) Work out $5\frac{3}{4} - 2\frac{1}{3}$

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

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

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

.....
(3)

.....
(3)

(Total for Question 9 is 6 marks)

TOTAL FOR SECTION B IS 30 MARKS

TOTAL FOR PAPER IS 80 MARKS



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