

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)

Friday 6 May 2016 – 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.



Write down the number marked with the arrow.

.....
(1)



Write down the number marked with the arrow.

.....
(1)

(Total for Question 1 is 2 marks)

2 (a) Find the value of 35^2

.....
(1)

(b) Find the value of $\sqrt{196}$

.....
(1)

(c) Work out the value of $3^4 \times 2^3$

.....
(2)

(Total for Question 2 is 4 marks)

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3 (a) Work out $+20 \div -5$

.....
(1)

(b) Work out $-3 - -10$

.....
(1)

(Total for Question 3 is 2 marks)

4 (a) Work out 6.5×2.89

.....
(1)

(b) Work out $\pounds 200 \div 3$
Give your answer to the nearest penny.

£.....
(2)

(Total for Question 4 is 3 marks)

5 Ali pays 8% National Insurance on the money he earns.
One month he earns $\pounds 3000$

Work out how much National Insurance he pays.

£.....

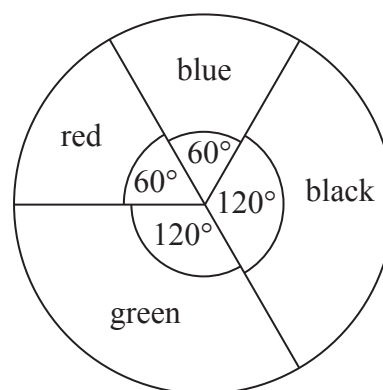
(Total for Question 5 is 2 marks)



6 In a box there are 12 pens.
There are blue pens, black pens, red pens
and green pens.

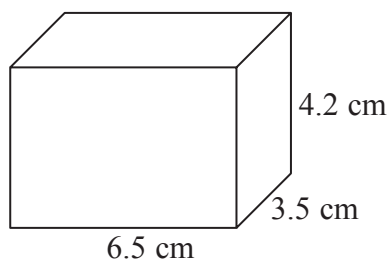
The pie chart shows information about the
number of pens of each colour.

How many red pens are there in the box?



(Total for Question 6 is 2 marks)

7 Find the volume of this cuboid.



..... cm³

(Total for Question 7 is 2 marks)

8 Change £240 into Icelandic krona using the exchange rate of £1 = 167 krona.

..... krona

(Total for Question 8 is 2 marks)



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9 During the day, Derek works for a bank.
He gets paid £14.50 for each hour he works.

In the evening, he makes models.
He gets paid £8.80 for each model he makes.

One week, Derek works for 28 hours in the bank and makes 15 models.
He pays £99.70 tax on what he earns for the week.

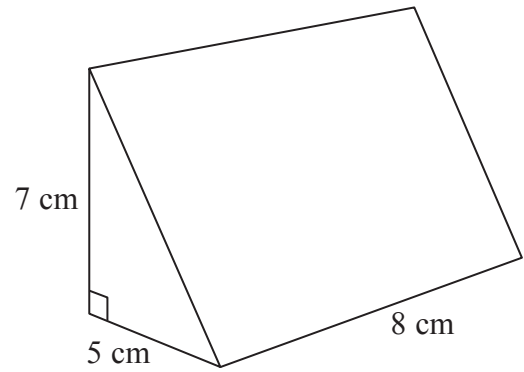
Work out Derek's total pay after the deduction of tax.

£.....

(Total for Question 9 is 4 marks)

10 Here is a triangular prism.

Work out the volume of the prism.



..... cm³

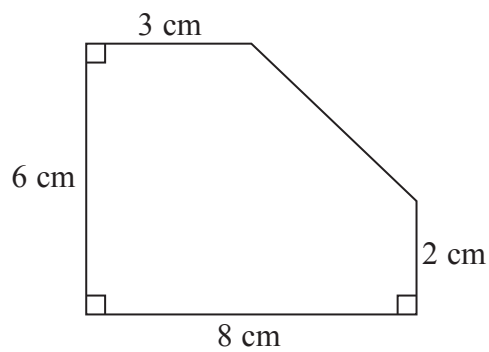
(Total for Question 10 is 3 marks)



11 Work out $8\frac{1}{4} \div 6\frac{3}{5}$

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

12 Work out the area of this shape.



..... cm²

(Total for Question 12 is 4 marks)

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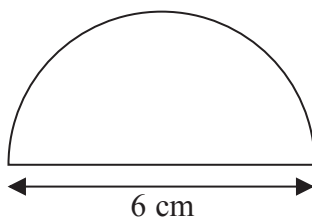
13 Jake invests £800 for 3 years in an account paying simple interest at a rate of 5% per year.

Work out the total amount of simple interest paid to Jake by the end of the 3 years.

£.....

(Total for Question 13 is 3 marks)

14 A semicircle has a diameter of 6 cm.



Work out the perimeter of the semicircle.

..... cm

(Total for Question 14 is 3 marks)



15 Change 160 miles into kilometres.
(5 miles = 8 kilometres)

..... kilometres

(Total for Question 15 is 2 marks)

16 Find the Lowest Common Multiple (LCM) of 12 and 90

.....

(Total for Question 16 is 3 marks)

17 There is sand in a playing area.

On Monday the weight of sand in the area was 180 kg.

On Friday the weight of sand in the area was 126 kg.

What is the percentage decrease in the weight of sand?

.....%

(Total for Question 17 is 3 marks)

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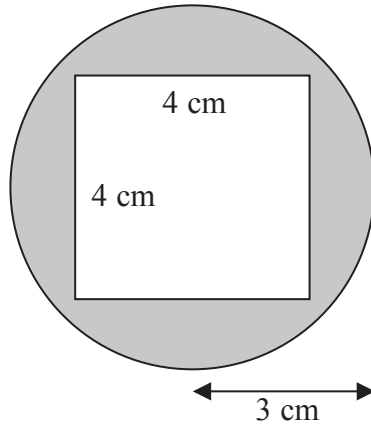


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18 This shaded shape is made by cutting a square out of a circle.



The square has sides of length 4 cm.
The circle has radius 3 cm.

Work out the area of the shaded shape.

..... cm²

(Total for Question 18 is 4 marks)

TOTAL FOR SECTION A IS 50 MARKS



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Write your name here

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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 B (Non-Calculator)

Friday 6 May 2016 – 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 for this section.

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

-4 2 8 3 -7 -2 -1

.....

(Total for Question 1 is 1 mark)

- 2 (a) Work out $108 + 33.53 - 13.4 - 40$

.....
(2)

- (b) Work out 34.79×6

.....
(2)

(Total for Question 2 is 4 marks)

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- 3 7 packets of paper of the same type cost £56
What is the cost of 12 packets of this paper?

£.....

(Total for Question 3 is 3 marks)

- 4 Write 30p as a fraction of £6
Give your answer in its simplest form.

.....

(Total for Question 4 is 2 marks)

- 5 Which is bigger, $\frac{1}{5}$ of 60 or $\frac{1}{6}$ of 66?
You must show all your working.

.....

(Total for Question 5 is 3 marks)



6 There are 16 vans and 24 cars in a car park.

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

.....
(Total for Question 6 is 2 marks)

7 Divide 660 in the ratio 4 : 7

.....
(Total for Question 7 is 2 marks)

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

$$\frac{59.3 \times 81.2}{11.9}$$

.....
(Total for Question 8 is 2 marks)

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9 The price of a picture is £600
In a sale, the price is reduced by 15%.
What is the price of the picture in the sale?

£.....

(Total for Question 9 is 3 marks)

10 (a) Work out $3\frac{5}{6} - 3\frac{1}{3}$

.....
(2)

(b) Work out $\frac{2}{7} \times \frac{5}{9}$

.....
(1)

(Total for Question 10 is 3 marks)



11 Write 280 as a percentage of 700

.....%

(Total for Question 11 is 2 marks)

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

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

.....
(Total for Question 12 is 3 marks)

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

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