

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)

Thursday 3 May 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

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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 may be used.**
- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  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

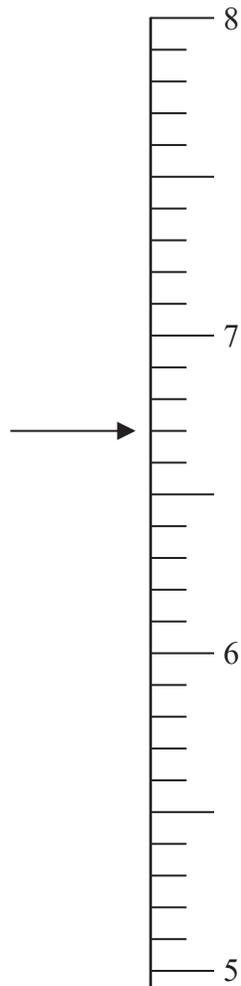
**Section A**

**Answer ALL questions.**

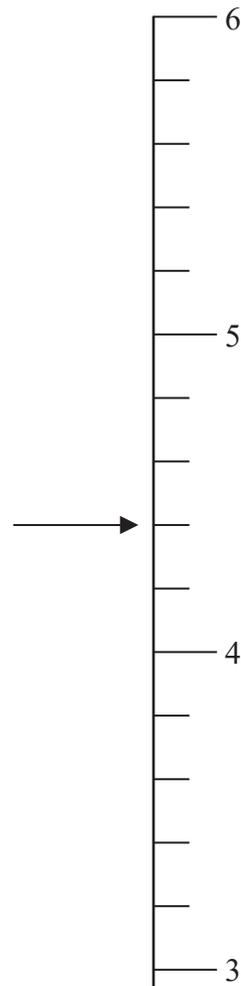
**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**1** Write down the numbers marked with the arrows ( $\longrightarrow$ ).



(i)



(ii)

**(Total for Question 1 is 2 marks)**

DO NOT WRITE IN THIS AREA

2 (a) Find the value of  $45^3$

(1)

(b) Work out the value of  $\sqrt{13^2 - 12^2}$

(2)

**(Total for Question 2 is 3 marks)**

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3 (a) Work out  $-5 + -2$

(1)

(b) Work out  $-7 - -5$

(1)

**(Total for Question 3 is 2 marks)**

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4 (a) Work out  $72.5 \times 3.91$

(1)

Sioned bought a pack of 8 batteries for £3.75

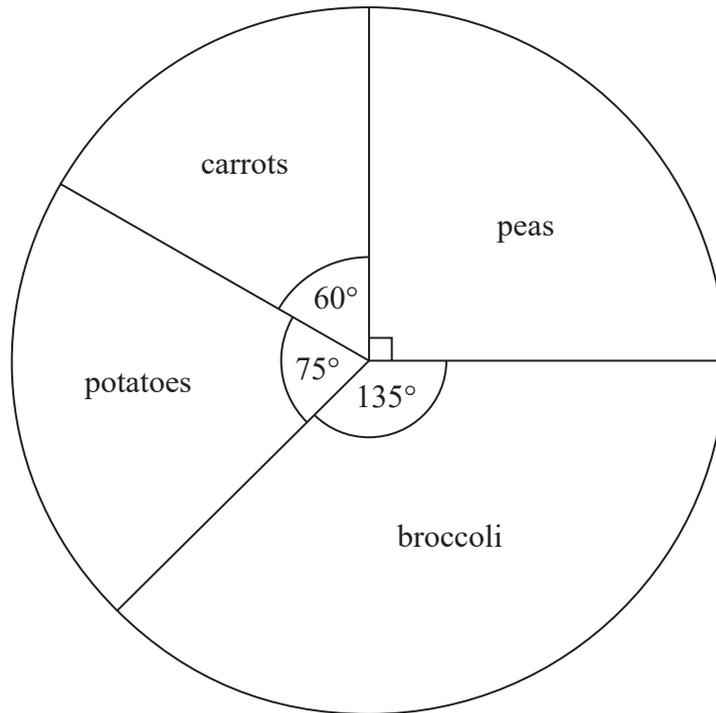
(b) Work out the cost of one of these batteries.  
Give your answer to the nearest penny.

(2)

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

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- 5 The students in Cathy's class were each asked to name their favourite vegetable. Here is Cathy's pie chart of the results.



4 students said that carrots are their favourite vegetable.  
5 students said that potatoes are their favourite vegetable.

Complete the frequency table.

Vegetable	Frequency
carrots	4
peas	
potatoes	5
broccoli	

(Total for Question 5 is 3 marks)

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DO NOT WRITE IN THIS AREA

- 6 Last week Rashmi worked for 40 hours at £9.60 per hour.  
He also worked 8 hours overtime at £14.40 per hour.

His deductions were

National Insurance	£12.50
Income tax	£42.63

Work out Rashmi's total pay after these deductions.

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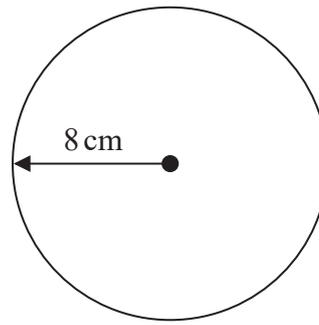
(Total for Question 6 is 4 marks)

- 7 Find the Highest Common Factor (HCF) of 24 and 60

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(Total for Question 7 is 3 marks)

- 8 A circle has a radius of 8 cm.  
Work out the circumference of the circle.



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(Total for Question 8 is 3 marks)

- 9 Divide 63 in the ratio 5 : 4

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(Total for Question 9 is 2 marks)

- 10 Thom invests £200 for 3 years in an account paying simple interest at a rate of 3.5% per year.  
Work out the total amount of simple interest paid to Thom by the end of the 3 years.

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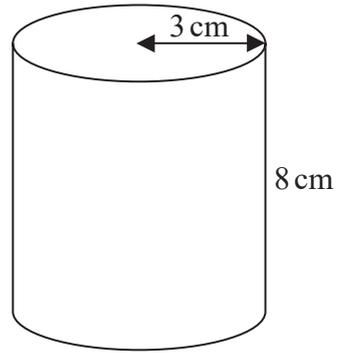
(Total for Question 10 is 3 marks)

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11 Here is a cylinder.

The radius of the cylinder is 3 cm.  
The height of the cylinder is 8 cm.

Work out the volume of the cylinder.



(Total for Question 11 is 3 marks)

12 Which is bigger

70% of 75 or  $\frac{3}{4}$  of 72?

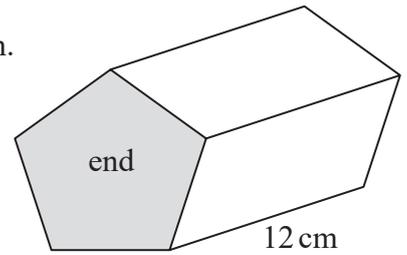
You must show your working.

(Total for Question 12 is 3 marks)

- 13 A box is in the shape of a prism.  
Each end of the prism is a 5-sided shape, shown shaded in the diagram.

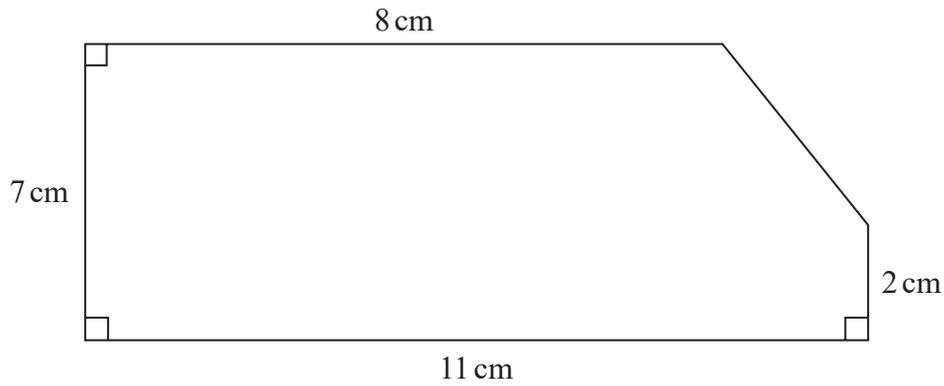
The volume of the prism is  $72 \text{ cm}^3$ .  
The length of the prism is 12 cm.

Work out the area of the shaded 5-sided end.



(Total for Question 13 is 2 marks)

- 14 Work out the area of this shape.



(Total for Question 14 is 4 marks)

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15 Work out  $3\frac{3}{4} \div 2\frac{1}{2}$

(Total for Question 15 is 2 marks)

16 Rebecca went on holiday to France.

She changed £500 into euros.

The exchange rate was £1 = 1.15 euros.

Work out how many euros Rebecca got.

(Total for Question 16 is 2 marks)

17 On Saturday, 120 people used the cash machine in Michael's shop.

On Sunday, 90 people used the cash machine in Michael's shop.

What is the percentage decrease in the number of people using the cash machine?

(Total for Question 17 is 2 marks)

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

4      -3      0      -2      -4      2      6

(Total for Question 18 is 1 mark)

- 19 Jose sells bags of potatoes.

The table gives information about the number of bags and the weight of the potatoes in each bag Jose has to sell.

Number of bags of potatoes	Weight of potatoes in each bag (kg)
10	0.5
40	1
20	2.5
5	5

Work out the total weight of potatoes that Jose has to sell.

(Total for Question 19 is 3 marks)

**TOTAL FOR SECTION A IS 50 MARKS**

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