

**Paper Reference ANM20/2A**

**Pearson**

**Edexcel Award**

Total Marks

**Number and Measure**

**Level 2**

**Section A (Calculator)**

**Thursday 3 May 2018 – Morning**

**Time: 1 hour plus your additional time allowance.**

**In the boxes below, write your name, centre number and candidate number.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

**Y56878A**

**YOU MUST HAVE**

**Ruler, protractor, writing and drawing equipment. Calculator.**

**YOU WILL BE GIVEN**

**Diagram Book**

**INSTRUCTIONS**

**Answer ALL questions.**

**Answer the questions in the spaces provided in this Question Paper or on the separate diagrams – 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.**

**Turn over**

## **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.**

**There may be spare copies of some diagrams.**

## **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.**

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**Turn over**

**Section A**

**Answer ALL questions.**

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

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

**Turn over**

1. Look at diagrams (i) and (ii) for Question 1 in the Diagram Book.

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

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

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

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

(1 mark)

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(continued on the next page)

**2. continued.**

**(b) Work out the value of**

$$\sqrt{13^2 - 12^2}$$

**(2 marks)**

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

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**Turn over**

3. (a) Work out

$$-5 + -2$$

(1 mark)

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(b) Work out

$$-7 - -5$$

(1 mark)

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

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**Turn over**

4. (a) Work out

$$72.5 \times 3.91$$

(1 mark)

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(continued on the next page)

Turn over

4. continued.

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 marks)

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

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**Turn over**

**5. Look at the diagram for Question 5 in the Diagram Book.**

**It shows a pie chart.**

**The students in Cathy's class were each asked to name their favourite vegetable.**

**Cathy's pie chart shows the results.**

**4 students said that carrots are their favourite vegetable.**

**5 students said that potatoes are their favourite vegetable.**

**(continued on the next page)**

5. continued.

Complete the frequency table below.

There are two spaces to fill.

<b>Vegetable</b>	<b>Frequency</b>
<b>carrots</b>	<b>4</b>
<b>peas</b>	
<b>potatoes</b>	<b>5</b>
<b>broccoli</b>	

(Total for Question 5 is 3 marks)

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Turn over

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	<b>£12·50</b>
Income tax	<b>£42·63</b>

Work out Rashmi's total pay after these deductions.

(4 marks)

Answer space is on the next page.

**6. continued.**

**£** \_\_\_\_\_

**(Total for Question 6 is 4 marks)**

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**Turn over**

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

**(3 marks)**

**Answer space continues on the next  
page.**

**7. continued.**

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**(Total for Question 7 is 3 marks)**

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**Turn over**

**8. Look at the diagram for Question 8 in the Diagram Book.**

**A circle has a radius of 8 cm**

**Work out the circumference of the circle.**

**(3 marks)**

**Answer space continues on the next page.**

8. continued.

\_\_\_\_\_ cm

**(Total for Question 8 is 3 marks)**

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**Turn over**

9. Divide **63** in the ratio **5 : 4**

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**(Total for Question 9 is 2 marks)**

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**Turn over**

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.**

**(3 marks)**

**Answer space continues on the next page.**

10. continued.

£ \_\_\_\_\_

**(Total for Question 10 is 3 marks)**

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**Turn over**

**11. Look at the diagram for Question 11 in the Diagram Book.**

**It shows 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.**

**(3 marks)**

**Answer space continues on the next page.**

11. continued.

\_\_\_\_\_  $\text{cm}^3$

**(Total for Question 11 is 3 marks)**

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**Turn over**

**12. Which is bigger**

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

**You must show your working.**

**(3 marks)**

**Answer space continues on the next page.**

**Turn over**

12. continued.

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

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**Turn over**

**13. Look at the diagram for Question 13 in the Diagram Book.**

**It shows a box in the shape of a prism.**

**Each end of the prism is a 5-sided shape, shown shaded in the diagram and below the prism.**

**The volume of the prism is  $72 \text{ cm}^3$**

**The length of the prism is  $12 \text{ cm}$**

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

**(2 marks)**

**Answer space is on the next page.**

**13. continued.**

\_\_\_\_\_ **cm<sup>2</sup>**

**(Total for Question 13 is 2 marks)**

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**Turn over**

**14. Look at the diagram for Question 14  
in the Diagram Book.**

**Work out the area of the shape.**

**(4 marks)**

**Answer space continues on the next  
page.**

**Turn over**

14. continued.

\_\_\_\_\_  $\text{cm}^2$

**(Total for Question 14 is 4 marks)**

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**Turn over**

15. Work out

$$3\frac{3}{4} \div 2\frac{1}{2}$$

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**(Total for Question 15 is 2 marks)**

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**Turn over**

**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.**

**(2 marks)**

**Answer space continues on the next page.**

**Turn over**

16. continued.

\_\_\_\_\_ euros

**(Total for Question 16 is 2 marks)**

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**Turn over**

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?**

**(2 marks)**

**Answer space continues on the next page.**

17. continued.

\_\_\_\_\_ %

**(Total for Question 17 is 2 marks)**

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**Turn over**

**18. Write these seven numbers in order of size.**

**Start with the smallest number.**

**4      -3      0      -2**  
**-4      2      6**

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**(Total for Question 18 is 1 mark)**

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**Turn over**

**19. Look at the table for Question 19 in the Diagram Book.**

**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.**

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

**(3 marks)**

**Answer space continues on the next page.**

19. continued.

\_\_\_\_\_ kg

(Total for Question 19 is 3 marks)

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**TOTAL FOR SECTION A IS 50 MARKS**

**END OF PAPER**

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