

**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>					

**V56878A**

**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.**

**Section A**

**Answer ALL questions.**

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

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

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

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

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

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

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

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

(1 mark)

---

**(continued on the next page)**

**Turn over**

**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**

$$\mathbf{-5 + -2}$$

**(1 mark)**

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**(b) Work out**

$$\mathbf{-7 - -5}$$

**(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)**

---

**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	£12·50
Income tax	£42·63

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.**



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



**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.**

\_\_\_\_\_ **cm<sup>3</sup>**

**(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.**



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



**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 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.**

**14. continued.**

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

**(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.**

**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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