



**NAN HUA PRIMARY SCHOOL**  
**SEMESTRAL ASSESSMENT 2 – 2019**  
**PRIMARY THREE**  
**MATHEMATICS**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name, register number and class in the space provided.
  2. Do not turn over the page until you are told to do so.
  3. Follow all instructions carefully.
  4. Answer all questions.
  5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1 to 10.
- 

**Marks Obtained**

| Section | Maximum Marks | Actual Marks |
|---------|---------------|--------------|
| A       | 20            |              |
| B       | 44            |              |
| C       | 16            |              |
| Total   | 80            |              |

Name : \_\_\_\_\_ (      )

Class : Pr 3 \_\_\_\_\_

Date : 30 October 2019

Duration: 1 h 45 min

Parent's Signature : \_\_\_\_\_

**Section A (20 marks)**

Questions 1 to 10 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer in the Optical Answer Sheet (OAS).

1. What does the digit 7 in 2743 stand for?

- (1) 7
- (2) 70
- (3) 700
- (4) 7000

(      )

2. Find the product of 328 and 4.

- (1) 1212
- (2) 1282
- (3) 1312
- (4) 1402

(      )

3. What is the remainder when 976 is divided by 7?

- (1) 139
- (2) 2
- (3) 3
- (4) 142

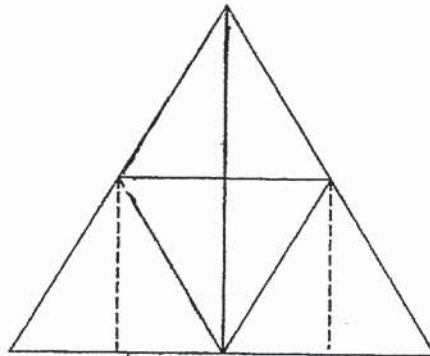
(      )

4.  $6050 - 2569 =$  \_\_\_\_\_

- (1) 3481
- (2) 3491
- (3) 3581
- (4) 4581

(      )

5. What fraction of the figure below is shaded?



- (1)  $\frac{1}{3}$   
 (2)  $\frac{1}{4}$   
 (3)  $\frac{2}{5}$   
 (4)  $\frac{2}{7}$

( )

6.  $8 + 8 + 8 + 56 = \underline{\hspace{1cm}} \times 8$

- (1) 80  
 (2) 10  
 (3) 8  
 (4) 4

( )

7. Moon Primary School recycled 798 drink cans.  
 Sun Primary School recycled 3 times as many cans as Moon Primary School.  
 What was the total number of cans that both schools recycled?

- (1) 1596  
 (2) 2174  
 (3) 2394  
 (4) 3192

( )

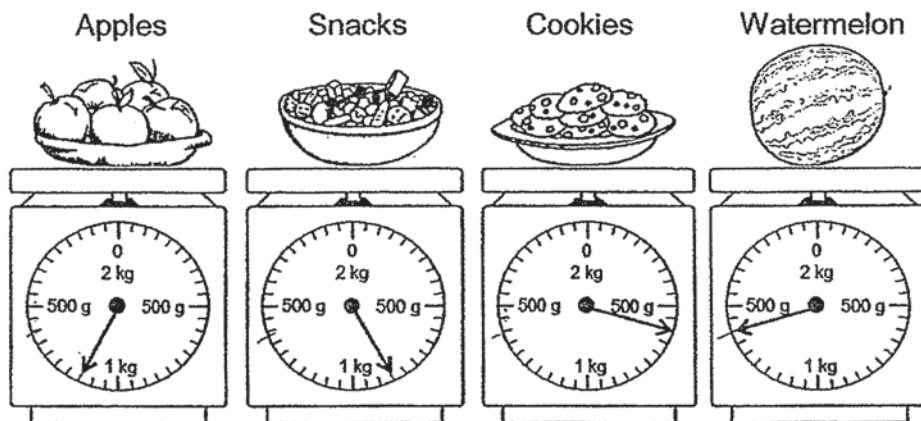
8. Write the time shown in the clock below.



- (1) 13 minutes before 5
- (2) 13 minutes to 6
- (3) 47 minutes after 6
- (4) 28 minutes past 9

( )

9. Which food item is the heaviest?



- (1) Apples
- (2) Snacks
- (3) Cookies
- (4) Watermelon

( )

10. John wants to have  $\frac{2}{3}$  of the figure shaded.  
How many more rectangles must he shade?



- (1) 5
- (2) 8
- (3) 3
- (4) 4

(      )

**Section B (44 marks)**

Show your workings clearly and write your answers in the boxes provided.

11. Arrange the fractions in order. Begin with the greatest fraction

$$\frac{5}{12}, \frac{5}{8}, \frac{3}{4}$$

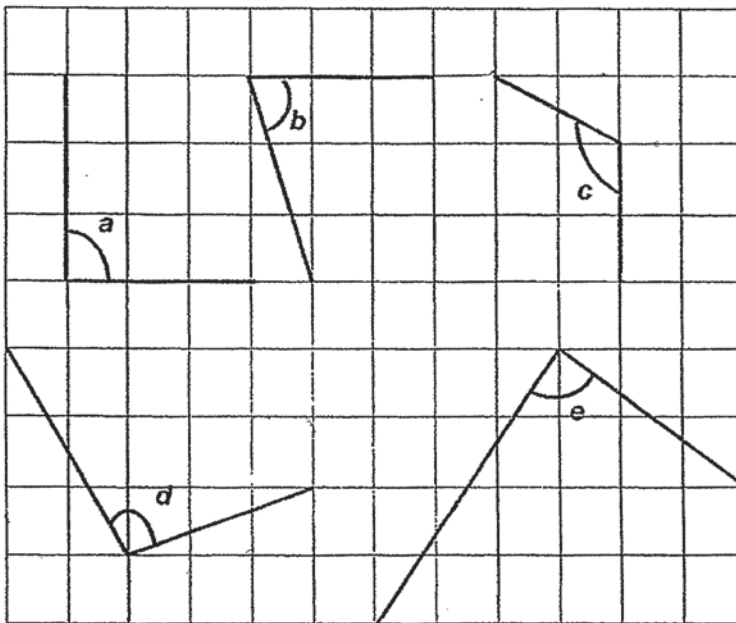
|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

Greatest

12. Write twenty thousand, nine hundred and nine in numerals.

|  |
|--|
|  |
|--|

13. Identify the angle/s that are greater than a right angle.



|  |
|--|
|  |
|--|

14. Find the value of  $687 \times 7$ .

15. Arrange these numbers in order. Begin with the **smallest** number.

|      |      |      |      |
|------|------|------|------|
| 6496 | 6649 | 6946 | 6469 |
|------|------|------|------|

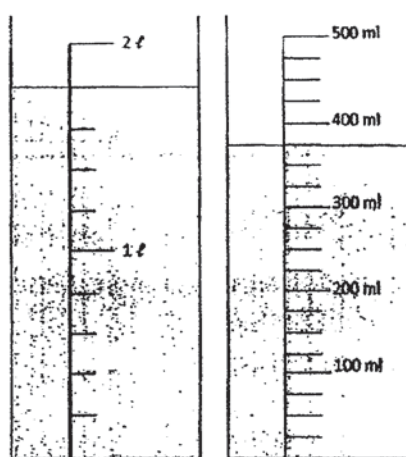
|                 |       |       |       |
|-----------------|-------|-------|-------|
| _____           | _____ | _____ | _____ |
| <b>Smallest</b> |       |       |       |

16. Mrs Chan bought a computer and a furniture set. The computer cost \$2497. She paid \$5000 and had \$350 left. How much did the furniture set cost?

17.  $\frac{5}{6} - \frac{3}{4} = \boxed{?}$

18. The difference between two numbers is 6148. One of the numbers is 2976.  
What is the other number?

19. Mrs Tan made some fruit punch for a party.  
The amount of fruit punch made is shown below.  
How much fruit punch did she make?

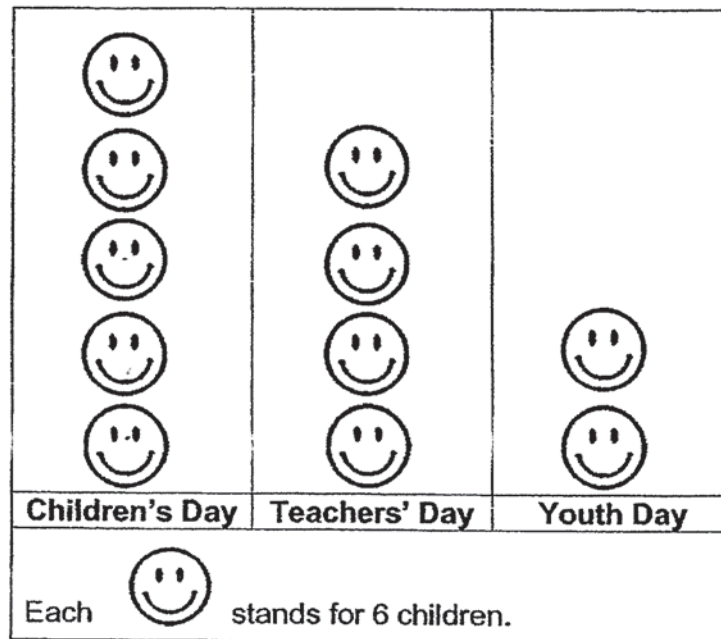

 l       ml

20. What is the missing number in the number pattern below?

\_\_\_\_\_, 6988 , 6948 , 6908 , 6868

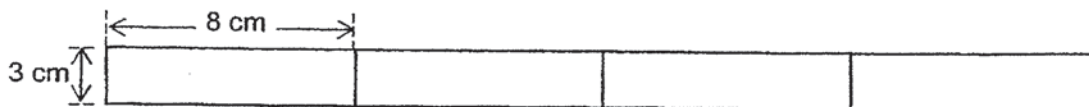
21. A group of children made this picture graph to show their favourite school holiday.

**Our Favourite School Holiday**



\_\_\_\_\_ more children chose Children's Day than Youth Day as their favourite school holiday.

22. Nathan made a birthday card for her sister with 4 pieces of rectangular paper glued together as shown below. What is the area of the card?


 cm<sup>2</sup>

23. Divide 86 by 7. What is the quotient?

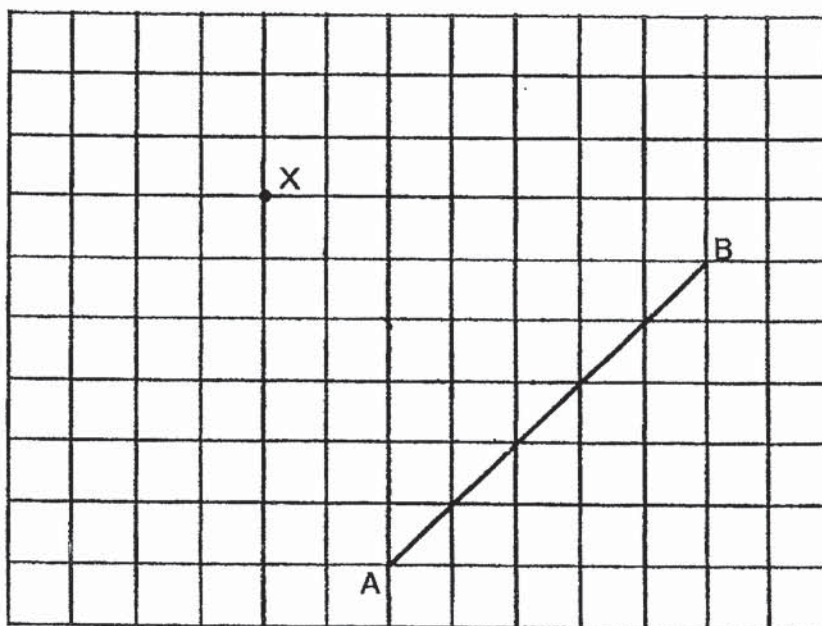
24. The table below shows the opening hours of a grocery store

| Weekdays               | Weekends             |
|------------------------|----------------------|
| 7.45 a.m. to 9.20 p.m. | 8.40 a.m. to 10 p.m. |

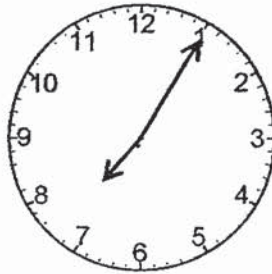
How long is the grocery store open on a weekday?

h
min

25. The figure below shows a line AB and a point X.  
Draw a line perpendicular to line AB passing through point X.



26. Jeremy takes 40 minutes to walk from his home to school in the morning. Yesterday, his watch showed the following time when he reached school.

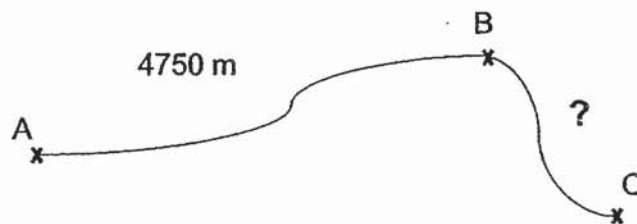


His watch was 5 minutes slow.

What was the actual time he left home for school yesterday?

a.m.

27. A bus travelled from point A to B and then from point B to C. The total distance was 7545 m. What was the distance from point B to C?

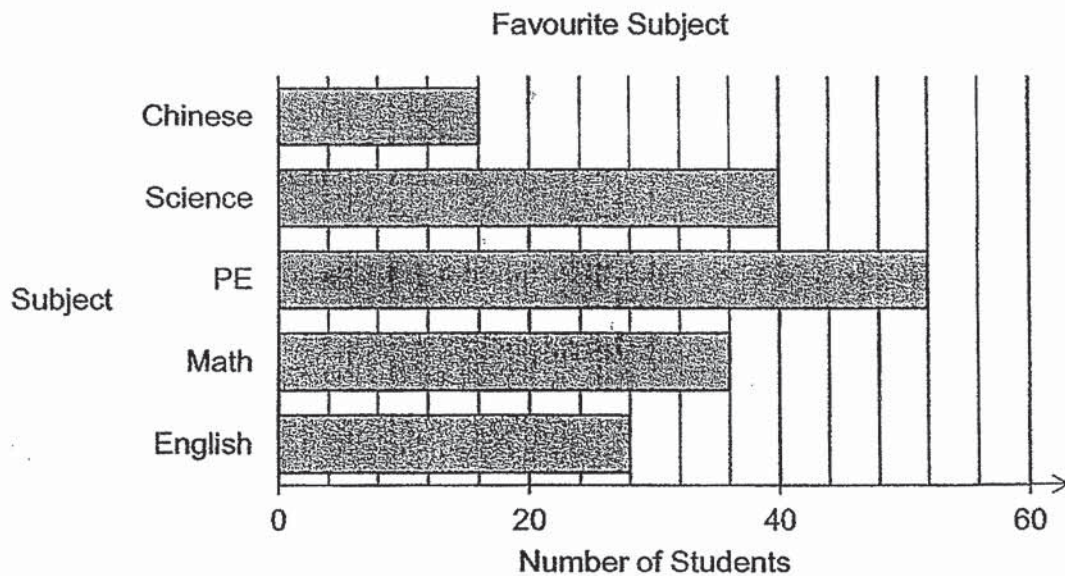


m

28. James spent \$27.95 on food. He spent \$7.35 less on food than on transport. How much did he spend on transport?

\$

29. The bar graph below shows the favourite subject of some Primary 4 students.



How many more students chose PE as their favourite subject than English?

30.  $\heartsuit \div 9 = \blacksquare R4$

What number could be added to  $\heartsuit$  so that  $\heartsuit$  is a multiple of 3?

31. Denise spent \$30 on the following items. How much did the crayons cost?



Crayons  
\$?



Sketch Book  
\$13.75



Pencil Case  
\$9.50

32. Ann has some stamps. Ben has 60 more stamps than Ann.  
Charles has 20 fewer stamps than Ben. They have 724 stamps altogether.  
How many stamps does Ann have?

**Section C (16 marks)**

Questions 33 to 37 carry 3 or 4 marks each. For each of the following questions, show your workings and statements clearly in the space below each question.

33. 2397 people visited the museum in June. 940 of them were adults and the rest were children.

- (a) How many children visited the museum in June? [1 mark]  
(b) There were 154 more men than women.  
How many women visited the museum in June? [2 marks]

34. A group of 7 tourists ordered a set meal each at a restaurant.  
The cost of a set meal was \$5.50.  
For every 2 set meals bought, the 3<sup>rd</sup> set was free.
- a) How much did 3 set meals cost? [1 mark]  
b) How much did the group of 7 tourists pay altogether? [2 marks]



35. Susan has 3 times as many marbles as John.  
John has 2 times as many marbles as Keith.  
They have 396 marbles altogether.  
How many marbles does John have? [3 marks]
-

36. The total mass of 1 mango and 3 apples is 651 g.  
The mass of 1 apple is 115 g less than 1 mango.  
What is the mass of 1 apple? [3 marks]

37. The figure below is made up of 3 identical rectangles.  
The perimeter of each rectangle is 54 cm.  
The length of each rectangle is two times its breadth.
- a) Find the length of each rectangle. [2 marks]  
b) Find the area of the figure. [2 marks]
- 

**End of Paper**



Name: \_\_\_\_\_

Class: \_\_\_\_\_

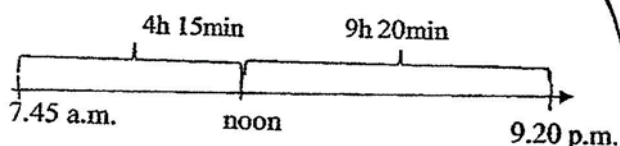
**Nan Hua Primary School**  
**P3 Mathematics SA2 – 2019**  
**Answer Key**

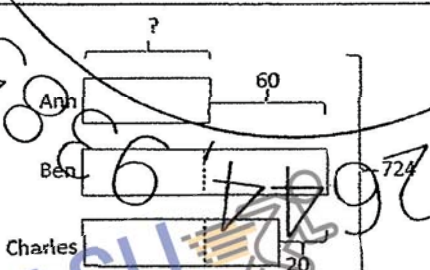
**Section A**

| Qn | Answer | Qn  | Answer |
|----|--------|-----|--------|
| 1. | 3      | 6.  | 2      |
| 2. | 3      | 7.  | 4      |
| 3. | 3      | 8.  | 2      |
| 4. | 1      | 9.  | 4      |
| 5. | 2      | 10. | 1      |

**Section B**

| Qn | Answer                                                                                                            |
|----|-------------------------------------------------------------------------------------------------------------------|
| 11 | $\frac{3}{4}, \frac{5}{8}, \frac{5}{12}$                                                                          |
| 12 | 20 909 (Question Void) 20909                                                                                      |
| 13 | c and d                                                                                                           |
| 14 | $687 \times 7 = 4809$                                                                                             |
| 15 | 6469, 6496, 6649, 6946                                                                                            |
| 16 | $2497 + 350 = 2847$<br>$5000 - 2847 = 2153$                                                                       |
| 17 | $\frac{5}{3} - \frac{1}{3}$<br>$= \frac{5-1}{3} = \frac{4}{3}$ or $\frac{1}{2}$                                   |
| 18 | $2976 + 6148 = 9124$                                                                                              |
| 19 | $11800 \text{ ml} + 375 \text{ ml} = 12175 \text{ ml}$<br>OR $1800 \text{ ml} + 375 \text{ ml} = 2175 \text{ ml}$ |
| 20 | $3988 + 40 = 7028$                                                                                                |

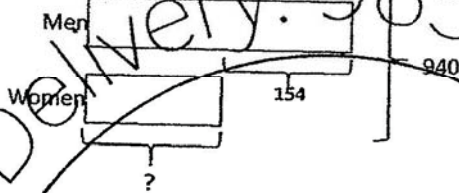
|    |                                                                                                                                                                                                                                  |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 21 | $6 \times 3 = \underline{18}$<br>OR<br>$5 \times 6 = 30$<br>$2 \times 6 = 12$<br>$30 - 12 = \underline{18}$                                                                                                                      |
| 22 | $8 \times 3 = 24$<br>$24 \times 4 = \underline{96}$<br>OR<br>$8 \times 4 = 32$<br>$32 \times 3 = \underline{96}$                                                                                                                 |
| 23 | $86 \div 7 = \underline{12} \text{ R } 2$                                                                                                                                                                                        |
| 24 | <p>(Example timeline)</p>  <p>4 h 15 min + 9 h 20 min = <u>13 h 35 min</u></p> <p>(WRONG)<br/> 9.20 p.m. – 12 p.m.<br/> 12 p.m. – 7.45 a.m.</p> |
| 25 | <u>Refer to Annex</u>                                                                                                                                                                                                            |
| 26 | <p>(example timeline)</p>  <p><u>6.30 a.m.</u></p> <p>(WRONG)<br/> 7.10 a.m. – 40 min = 6.30 a.m.<br/> 6.25 a.m. + 5 min = 6.30 a.m.</p>      |
| 27 | $7545 \text{ m} - 4750 \text{ m}$<br>= <u>2795 m</u>                                                                                                                                                                             |
| 28 | $\$27.95 + \$7.35 = \underline{\$35.30}$                                                                                                                                                                                         |

|    |                                                                                                                                                                                                                                                                         |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29 | $20 \div 5 = 4$<br>$4 \times 6 = \underline{24}$<br><br>Or<br>(PE – EL)<br>$52 - 28 = \underline{24}$                                                                                                                                                                   |
| 30 | $4 \div 3 = 1R1$<br>$3 - 1 = \underline{2}$<br><br>OR<br>$(1 \times 9) + 4 = 13$<br>$13 + \underline{2} = 15$<br><br><b>Ans: (2 + any multiple of 3)</b><br>$2 + 3 = \underline{5}$<br>$2 + 6 = \underline{8}$<br>$2 + 9 = \underline{11}$<br>$2 + 12 = \underline{13}$ |
| 31 | $\$30 - \$13.75 = \$16.25$<br>$\$16.25 - \$9.50 = \underline{\$6.75}$<br><br>Or<br>$\$13.75 + \$9.50 = \$23.25$<br>$\$30 - \$23.25 = \underline{\$6.75}$                                                                                                                |
| 32 |  <p> <math>60 - 20 = 40</math><br/> <math>724 - 60 - 40 = 624</math><br/> <math>624 \div 3 = \underline{208}</math> </p>                                                             |

**Section C**

33. (a)  $2397 - 940 = 1457$   
**1457** children visited the museum.

(b)



$$940 - 154 = 786$$

$$786 \div 2 = 393$$

**393** women visited museum.

34. (a)  $2 + 1 = 3$   
 3 set meals  $\rightarrow \$5.50 + \$5.50 = \$11$

3 set meals cost **\$11**

$$(b) \$11 + \$11 = \$22 \text{ (6 set meals)}$$

$$\$22 + \$5.50 = \$27.50$$

They paid **\$27.50** altogether.

35. 
  
 Susan: 9 units  
 John: 2 units  
 Keith: 1 unit

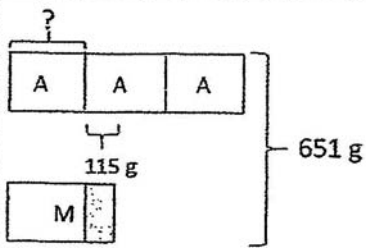
$$9 \text{ units} = 396$$

$$1 \text{ unit} = 396 \div 9 = 44$$

$$2 \text{ units} = 44 \times 2 = 88$$

John has **88** marbles

36.



$$651 - 115 = 536 \text{ (4 Apples)}$$

$$536 \div 4 = 134$$

The apple weighs 134 g

OR

$$651 + (115 \times 3) = 651 + 345 = 996 \text{ (4 Mangoes)}$$

$$996 \div 4 = 249$$

$$249 - 115 = 134$$

The apple weighs 134 g

37.

(a)  $6 \text{ units} = 54$

$1 \text{ unit} = 54 \div 6 = 9$

$2 \text{ units} = 9 \times 2 = 18$

The length of the rectangle is 18 cm

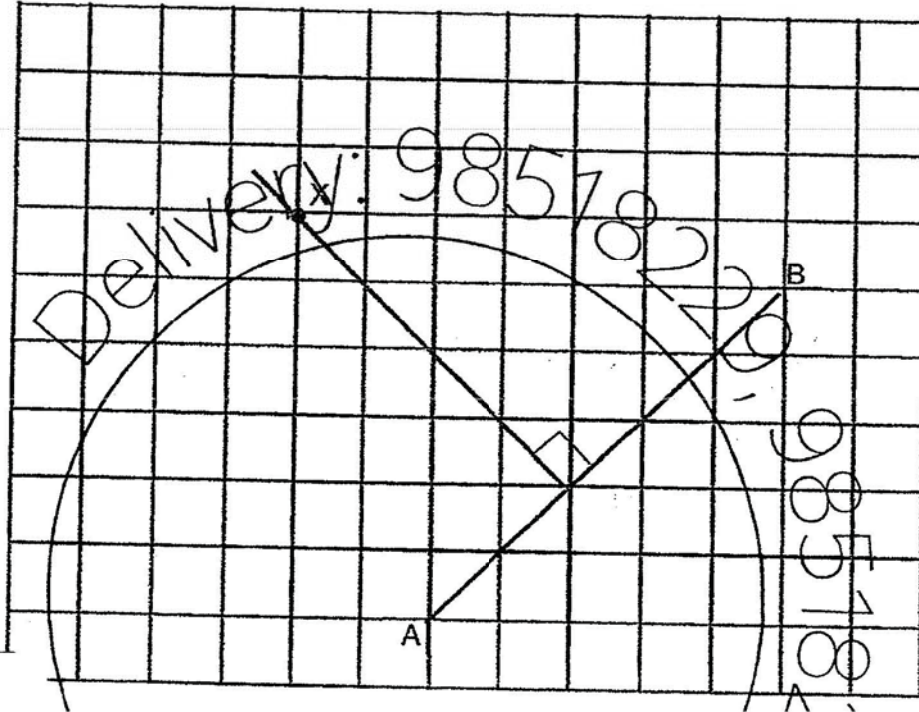
(b)  $18 \times 9 = 162$

$162 \times 3 = 486$

The area of the figure is 486 cm<sup>2</sup>

Annex A

Q 25



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