SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM ONE ENTRANCE EXAMINATION

130 MATHEMATICS

TIME: 2.00 HOURS FRIDAY 30th NOVEMBER, 2018 a.m.

1. **This paper consists of two (2) sections A and B**
2. **Answer ALL questions in section A and any FOUR (4) questions in section B.**
3. **Write your answers in the spaces provided.**
4. **Cellular phone and calculator are not allowed in the examination room.**
5. **Write your examination number on each page.**

FOR EXAMINER'S USE ONLY		
QUESTION NUMBER	**MARKS**	**SIGNATURE**
1.		
2.		
3		
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12.		
13.		
14.		
15.		
16.		
TOTAL		

This paper consists of 16 printed pages

SECTION A: (60 Marks)
Answer ALL questions in this section

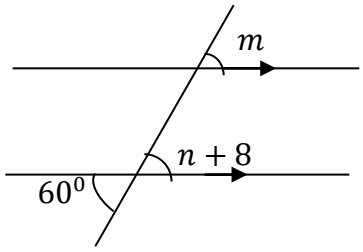
1. Find the sum of five hundred and seventy two thousand, two hundred and thirty two **and** three hundred and thirteen thousand, three hundred and fourteen.

2. Use factors tree to find the prime factors of 86.

3. Find the sum of $(0.5 \times 9)\ and\ (0.3 \times 6)$.

4. A swimming pool measures $25m\ long, 5m\ wide\ and\ 12m\ high.$ What is its volume in liters?

5. Find the value of $m \; and \; n.$



6. Find the value of x in the equation $\frac{2}{3}(2x + 4) + 6 = 10?$

7. The boat started from Zanzibar at

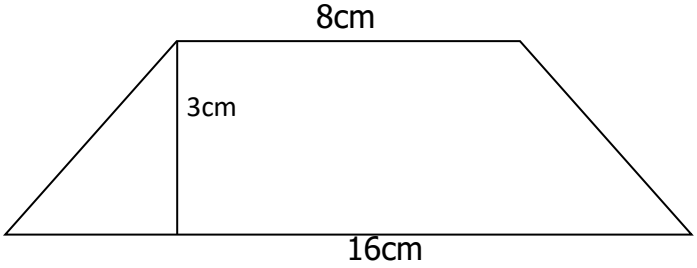
It reached to Dar es Salaam at

How much time boat has taken to reach Dar-es-Salaam?

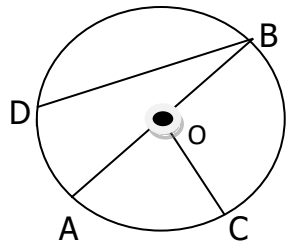
_____

_____

8. What is the area of the figure shown below?



9. Use the circle below to answer the following questions



a) What name is given to arc AC

_____

_____

b) What name is given to line AB

_____

_____

c) Why line DB is not equal to line AB?

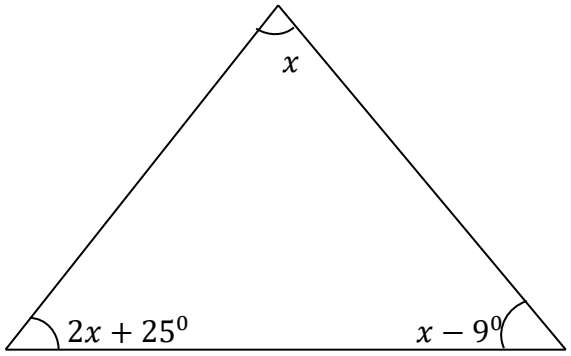
_____

_____

10. Find the value of $\frac{1}{2} of \left(\frac{6}{5} - \frac{1}{2}\right) + \frac{1}{2} \times \frac{1}{2}$.

SECTION B: (40 marks)
Answer ANY four (4) questions in this section

11. a) Find the value of angle x in the figure below



b) Ali earns shillings 5400 after working for $24\ days$. How much money should receive if he is absent for $6\ days$?

12. a) Find the length of equilateral triangle whose perimeter is 120cm.

b) Asha borrowed shillings 10,000 for period of 2 years. She charged compound interest at the rate of 15% per year. How much interest did she pay all together?

13. a) A bag of sugar weighed $150kg$. Juma bought 14 bags. He then removed $5kg$ of sugar from each bag. What total weight of sugar remained?

b) Find the value of $4407_8 + 30_8$

14. a) Express $1\frac{1}{2}\%$ as fraction.

b) If $m \; and \; n$ are directly proportional to each other, copy and complete the following table:

m	15	10		0.2	
n	3		6		4

15. Complete the table below:

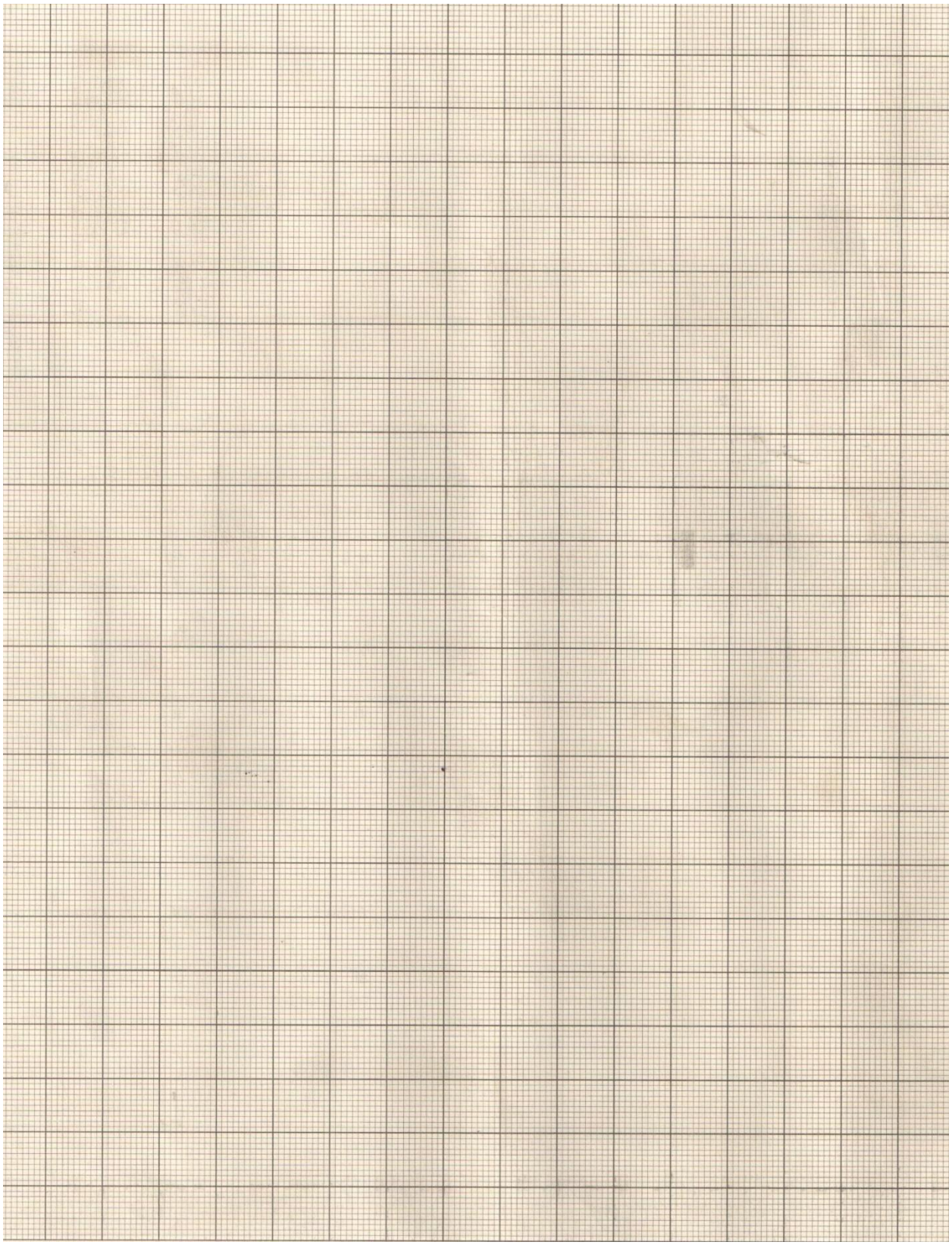
Buying price in shillings	Selling price in shilling	Profit	Percentage profit
20,000			60%
	35,000	10,000	
12000		3000	

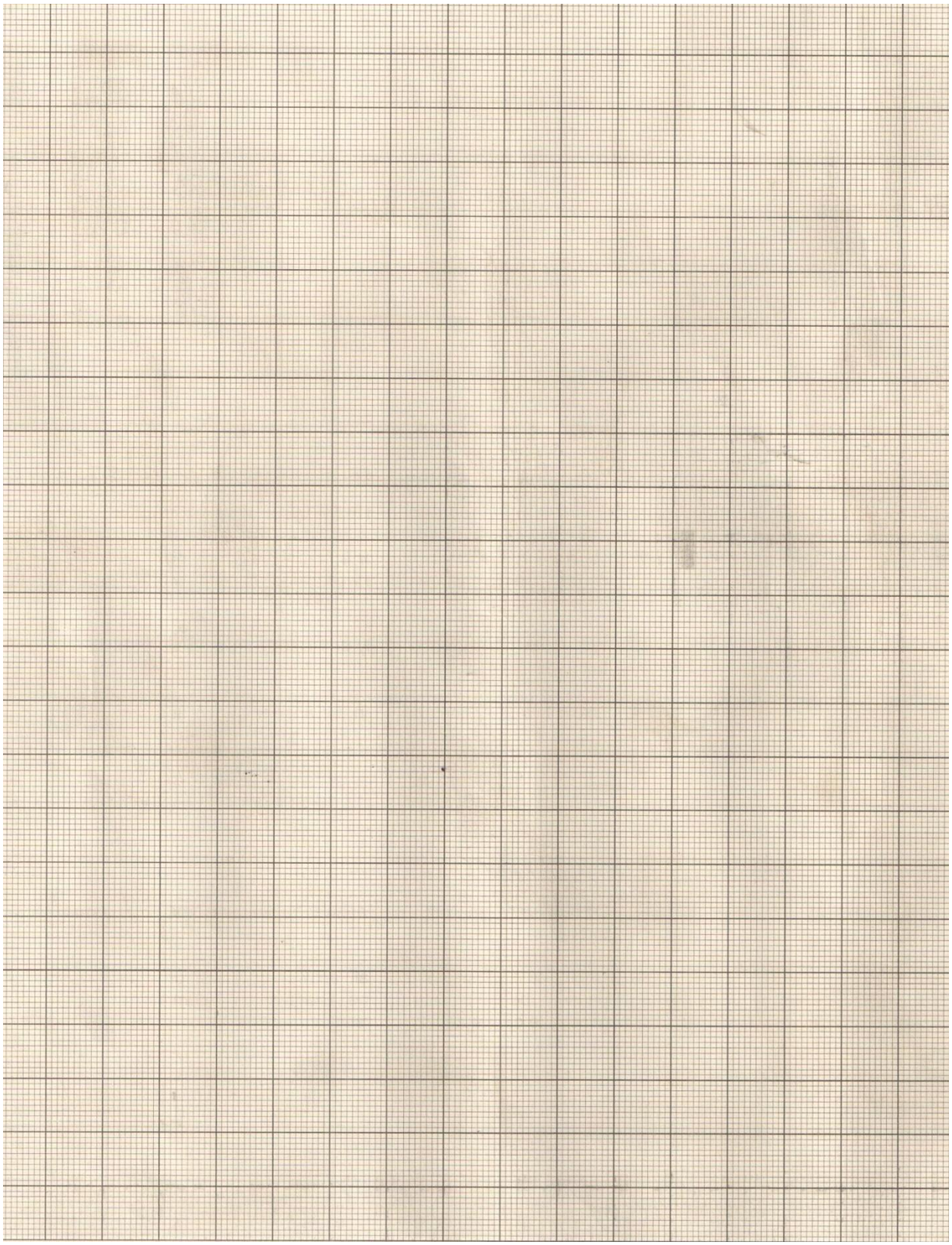
16. a) In the year 2018. February 19^{th} was Monday. What day was March 6^{th} of the same year?

b) The following table shows the masses in kg of fish sold by Juma.

Mass of fish in kg	15	20	25	30	35	40
Number of fish	2	6	8	10	4	6

Draw the histogram of this information.





ROUGH WORK

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