

Candidate Number								Candidate Name	

JUNIOR SECONDARY CERTIFICATE

MATHEMATICS

1200/1

PAPER 1 (Short Questions)

1 hour

Marks 45

2017

Additional Materials: Geometrical instruments
 Non-programmable calculator

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Candidates answer on the Question Paper in the spaces provided.
- Write your Candidate Number and Name in the spaces at the top of this page.
- Answer **all** the questions. **All working must be shown clearly.**
- Write in dark blue or black pen.
- You may use a non-programmable calculator.
- Do not use correction fluid.
- Do not write in the margin *For Examiner's Use*.
- If an answer is not exact, it should be rounded to **one** decimal place and for money give your answer to **two** decimal places.
- The number of marks available is shown in brackets [] after each question or part question.

<i>For Examiner's Use</i>	
<i>Marker</i>	
<i>Checker</i>	

This document consists of **8** printed pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

1 Work out $(9 + \sqrt{25})^2$.

Answer [1]

2 Write 3.82×10^{-5} as an ordinary number.

Answer [1]

3 Namibia has an area of 825 400 km².
Write this number in standard form.

Answer..... [2]

4 14, 10, 6, 2, ...

For the sequence above, write down the next term.

Answer [1]

5 Write down a multiple of 9 between 100 and 110.

Answer [1]

6 A baby was born with a mass of 2.5 kg. His mass increased by 70% after 3 months.
Calculate the mass of the baby after 3 months in kg.

Answerkg [2]

- 7 On a certain island, Fransisco recorded a temperature of -6°C on a Sunday. On Monday, the temperature went down by 3°C . Find the temperature recorded on Monday.

Answer $^{\circ}\text{C}$ [2]

- 8 One scientific calculator costs N\$120.
How many calculators can be bought with N\$840?

Answer calculators [2]

- 9 In a Grade 10 class, the learners' ratio of boys to girls is 2 : 3. There are 15 girls in a class.
Calculate the number of boys in the class.

Answer boys [2]

- 10 There are 50 vehicles in a parking area of which 18 are sedans and the rest are pick-ups.

Write the ratio of sedans : pick-ups vehicles in its simplest form.

Answer : [2]

- 11 Ben bought a school bag for N\$205.00.
He later sold it to his schoolmate for N\$190.00.

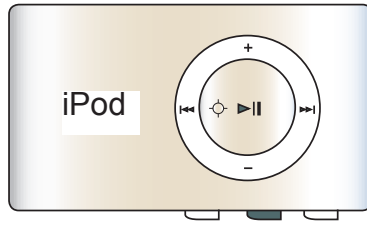
(a) Calculate the loss he made.

Answer (a) N\$..... [1]

(b) Calculate the percentage loss he made.

Answer (b)% [2]

- 12 Perry wants to buy an iPod for playing music at N\$720 .



He decided to generate this amount of money by washing cars everyday.

He charges N\$30 per car.

How many cars must he wash to generate the N\$720?

Answercars [2]

- 13 The price of a dining table is N\$1 200 plus 15% VAT.

Calculate the price that a customer must pay for the dining table.

Answer N\$ [2]

- 14 A spoon can hold 4.5 ml of medicine.

Write 4.5 ml in litres.

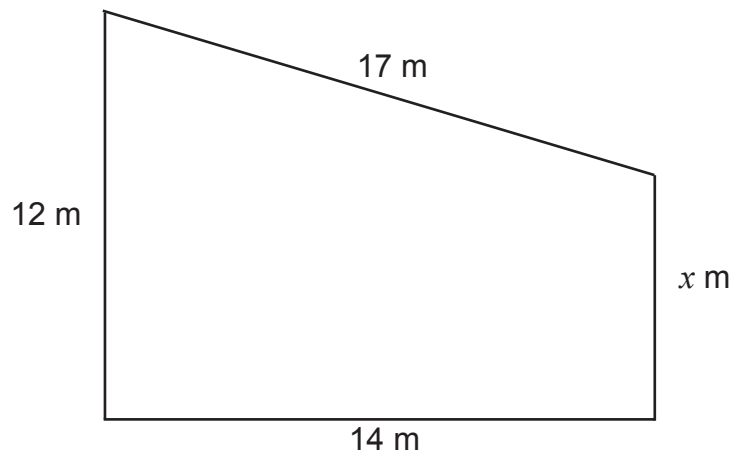
Answer l [1]

- 15 A circumference of a circle is 88 cm.

Calculate its diameter. (Use $\pi = \frac{22}{7}$ or 3.142)

Answer cm [2]

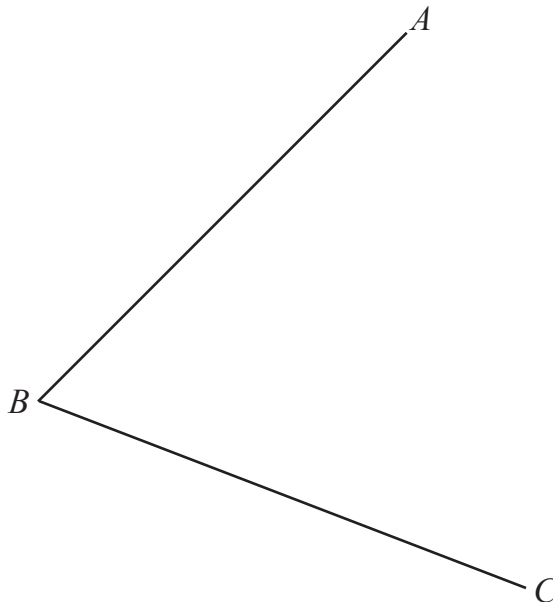
- 16** The shape below shows Mary's garden.
The perimeter of her garden is 48 m.



Calculate the value of x .

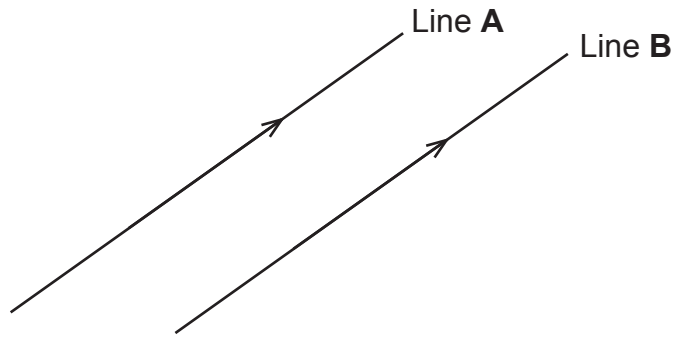
Answer $x = \dots\dots\dots$ m [2]

- 17** By using a pair of compass and a ruler bisect angle ABC .



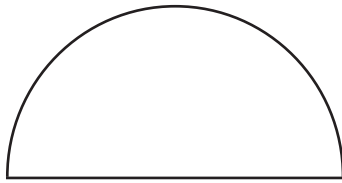
[2]

18 Use the geometrical term to describe the relationship between line **A** and line **B**.

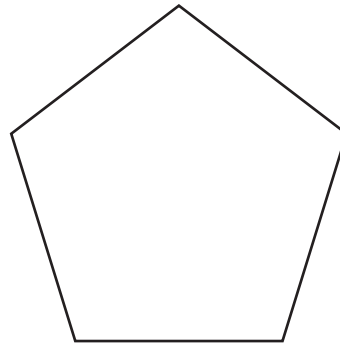


Answer [1]

19



Shape **A**



Shape **B**

(a) Write down the number of line(s) of symmetry of shape **A**.

Answer (a) [1]

(b) Write down the order of rotational symmetry of shape **B**.

Answer (b) [1]

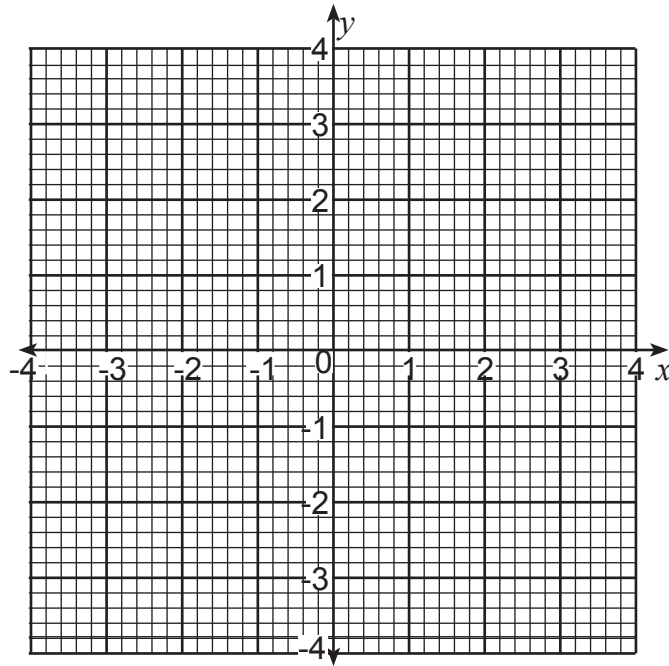
20 Solve for x $5x - 5 = 15 + 3x$.

Answer $x =$ [2]

21 Factorise completely $9pq + 18pr$.

Answer [2]

22



On the grid above,

(a) plot point $(-2, 3)$. Label it *A*.

[1]

(b) draw the line $x = 3$.

[1]

23 The pictogram below shows information about the number of different fruits sold in a shop per day.

Fruits	Number of fruits
Orange	
Apple	
Banana	
Mangoes	

Key: represents 4 fruits.

(a) How many mangoes were sold in a day?

Answer (a) [1]

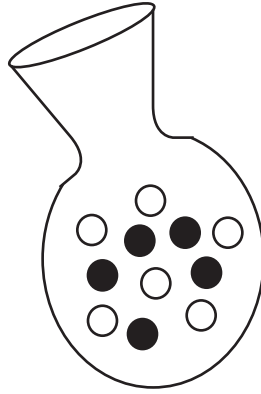
(b) Given that 12 bananas were sold on the day, complete the pictogram using this information.

[1]

(c) How many more oranges than mangoes were sold?

Answer (c) [1]

- 24 The diagram shows 5 black beads and 6 white beads in a bag.

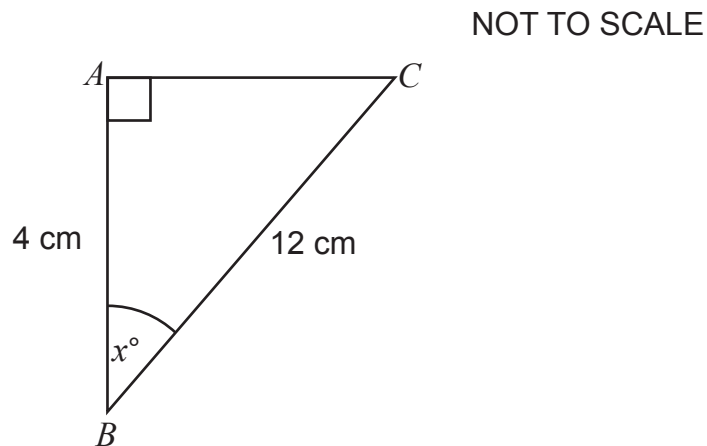


One bead is chosen at random.

What is the probability that bead chosen is black?

Answer [1]

- 25 In the triangle below $AB = 4$ cm and $BC = 12$ cm.



Calculate the value of x .

Answer $x = \dots\dots\dots^\circ$ [2]