

Candidate Name	School Name
----------------	-------------

JUNIOR SECONDARY SEMI – EXTERNAL EXAMINATION

MATHEMATICS

2200/1

PAPER 1 (Short Questions)

1 hour 30 minutes

Marks 45

2019

Additional Material: Ruler

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Write your Candidate Name and School Name in the spaces on top of this page.
- Write your answers on the Question Paper.
- **All working must be shown clearly.**
- Write in dark blue or black pen.
- You may use a soft pencil for any rough work, diagrams or graphs.
- Do not use correction fluid.
- Do not write in the margin *For Examiner's Use*.
- Answer **all** questions.
- You may **NOT** use a calculator.
- Answers for money must be given correct to **two** decimal places.
- The number of marks is given in brackets [] at the end of each question or part question.

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

This document consists of **10** printed pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

1 Work out $(4 + 1) \times 2$.

Answer [1]

2 Find the HCF (highest common factor) of 21 and 35.

Answer [1]

3 Calculate

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

Answer [1]

4 13, 49, 76, 27

From the list of numbers write down

(a) a multiple of 3,

Answer (a) [1]

(b) a prime number,

Answer (b) [1]

(c) a square number.

Answer (c) [1]

5 The number of students at a university increased from 2 500 to 3 000 in one year.

Calculate the percentage increase in the number of students.

Answer % [2]

- 6 Write 0.01752 correct to one significant figure.

Answer [1]

- 7 Write the following numbers in ascending order (smallest to largest).

-2.4, -3.1, -2.5

Answer,, [1]

- 8 Use $>$, $<$ or $=$ to make each statement true.

(a) $\frac{1}{4}$ 0.42 [1]

(b) $\frac{9}{4}$ $\frac{9}{7}$ [1]

(c) $3 \times 2 - 6$ 3^0 [1]

- 9 Azu invested N\$ 1 000 at a rate of 5% per year simple interest.
Calculate the interest she received at the end of 3 years.

Answer N\$ [2]

- 10 A shop has a sale of all items reduced by 20%.
Loide bought a watch on sale at N\$ 350.
Calculate the original price of the watch.

Answer N\$ [2]

11 (a) Find the value of $2p + q$ if $p = 3$ and $q = 7$.

Answer (a) [2]

(b) Solve for x

$$2x - 9 = 1.$$

Answer (b) $x =$ [2]

(c) Simplify $y^9 \div y^3$.

Answer (c) [1]

(d) Multiply out $(x^2)(x^2 + 3x - 2)$.

Answer (d) [2]

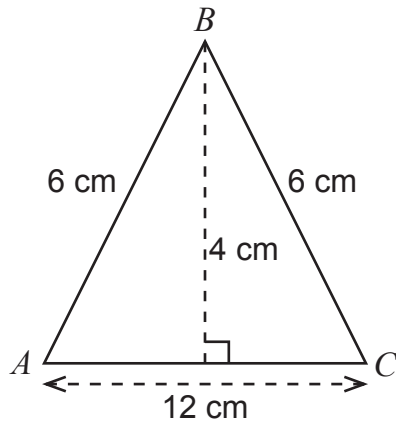
(e) Chris thought of a number, x , he multiplies it by 6 and subtracts 8.
Write an expression to represent this statement.

Answer (e) [1]

12 A farm has an area of 36 400 000 m².
Write down the area of the farm in hectares.

Answer ha [1]

13 (a)

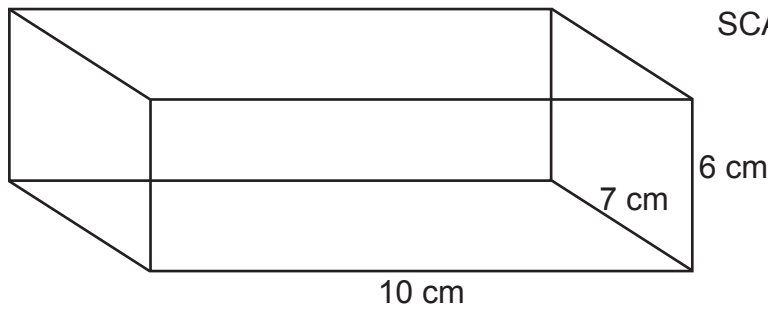


NOT TO
SCALE

Calculate the area of triangle ABC .

Answer (a) cm^2 [2]

(b)

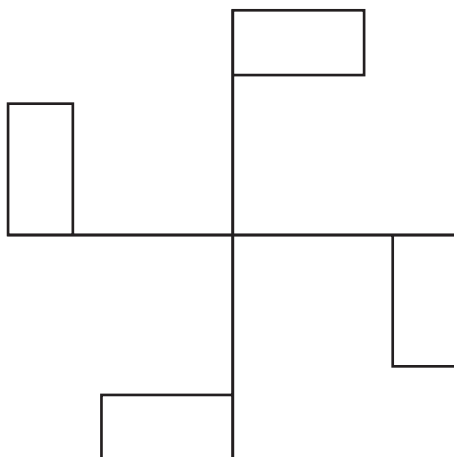


NOT TO
SCALE

Calculate the volume of the cuboid.

Answer (b) cm^3 [2]

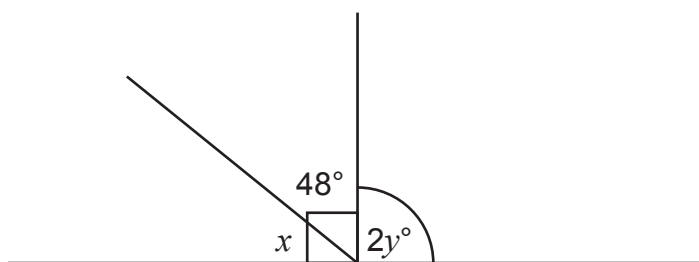
14

For
Examiner's
Use

Write down the order of rotational symmetry of the shape above.

Answer [1]

15



(a) (i) Find the value of angle x .

Answer (a) (i) $x = \dots\dots\dots^\circ$ [1]

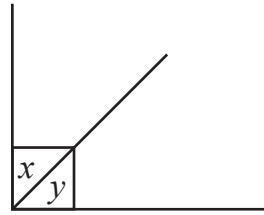
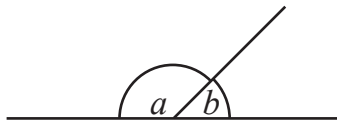
(ii) What type of angle is angle x ?

Answer (a) (ii) [1]

(b) Calculate the value of y .

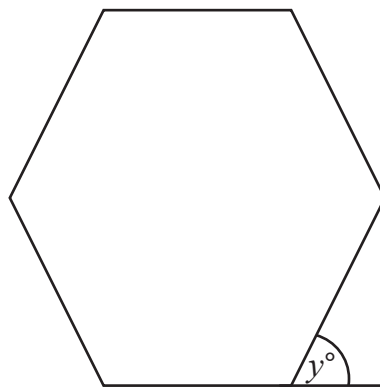
Answer (b) $y = \dots\dots\dots$ [1]

16 Which pair of angles are complementary?



Answer..... and..... [1]

17

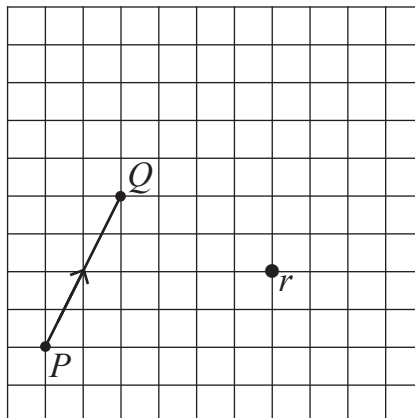


NOT TO
SCALE

The diagram shows a regular hexagon.
Calculate the value of y .

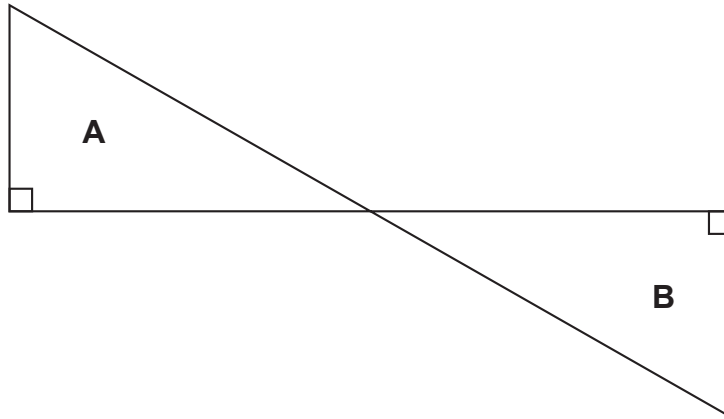
Answer $y = \dots\dots\dots^\circ$ [2]

18



Draw a line passing through r which is parallel to PQ . [1]

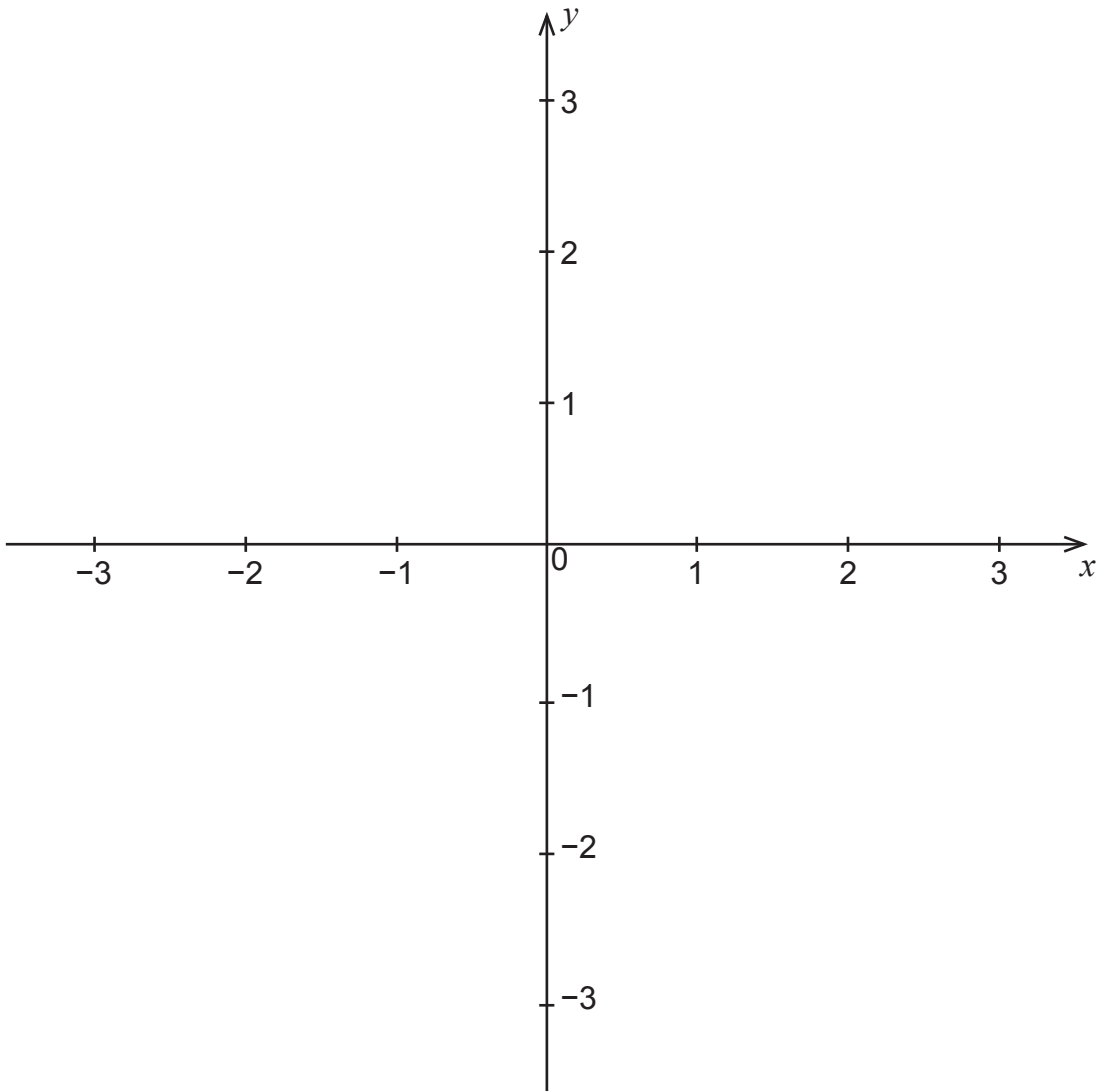
19



Identify the type of transformation that maps triangle **A** onto triangle **B**.

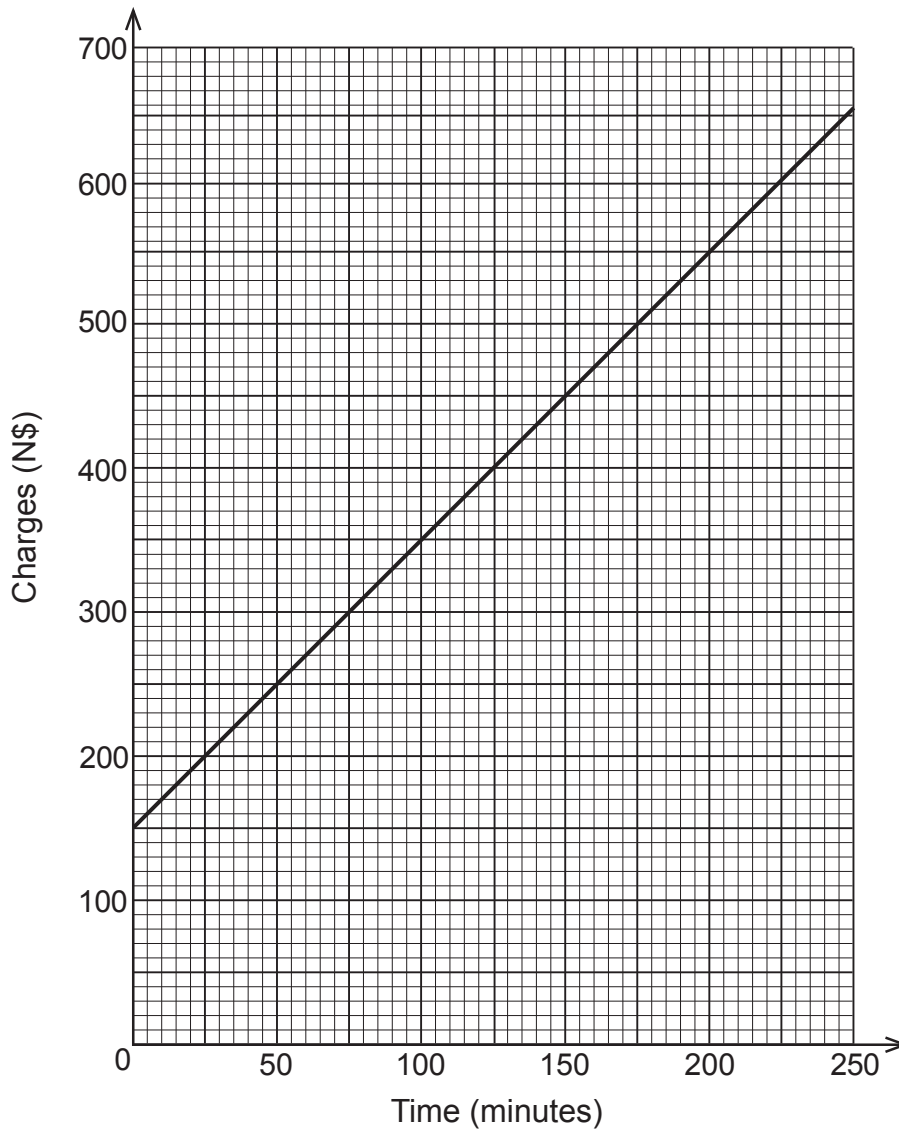
Answer [1]

20 On the diagram, draw the line $y = -2$.



[1]

21 Steven has a telephone. The graph shows his monthly charges for calls up to 250 minutes.



(a) What is his basic monthly charge.

Answer (a) N\$ [1]

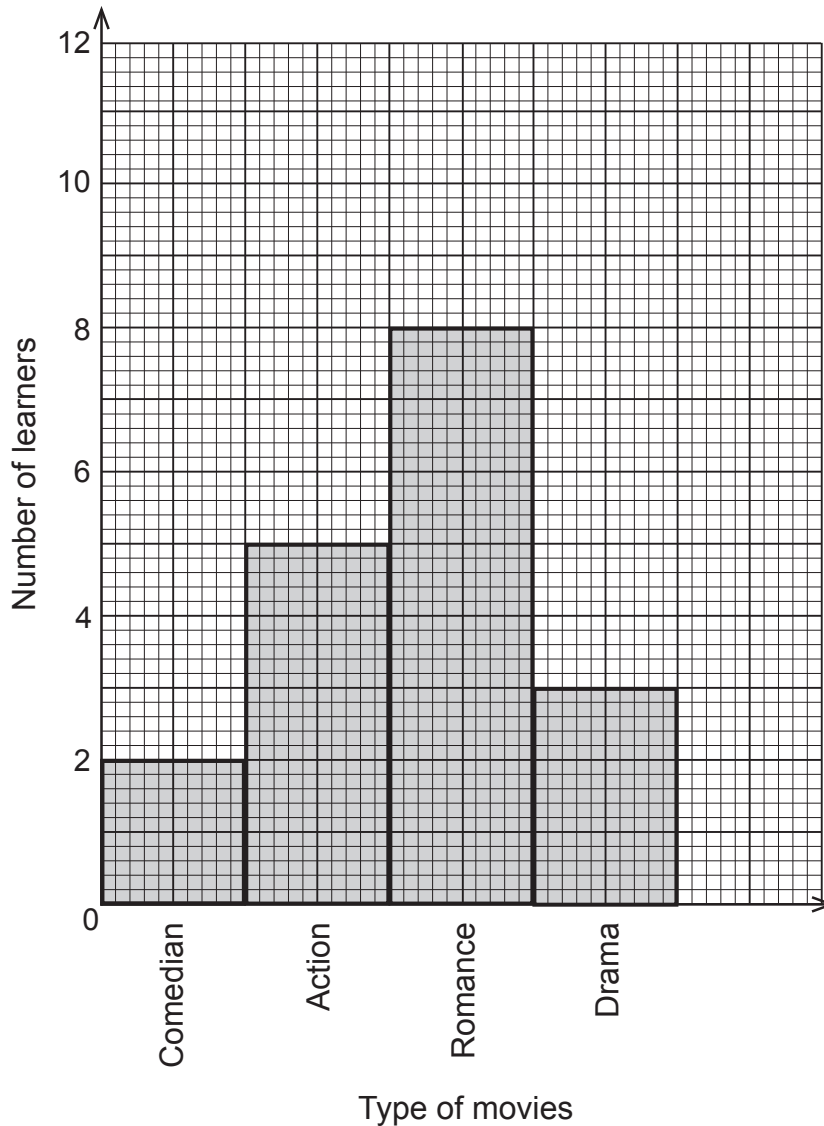
(b) How much does he pay for a 200 minutes call?

Answer (b) N\$ [1]

22 A bag contains a total of 10 coloured balls, of which 7 of them are blue.
Dave takes one ball out of the bag at random.
What is the probability that the ball is blue?

Answer [1]

23 The bar chart shows the types of movies liked by the learners in a class.



(a) Calculate the total number of learners in a class.

Answer **(a)** [1]

(b) Which type of movies is mostly liked?

Answer **(b)** [1]