

Candidate Number										Candidate Name									

JUNIOR SECONDARY CERTIFICATE

MATHEMATICS

1200/1

PAPER 1 (Short Questions)

1 hour

Marks 45

2018

Additional Material: 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** 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.

For Examiner's Use

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Marker

Checker

This document consists of 7 printed pages.



Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

1 Calculate $(4 - 7)^2$.

Answer [1]

2 Write 0.007245,
(a) correct to **three** significant figures,

Answer (a) [1]

(b) in standard form.

Answer (b) [2]

3 Simplify the following ratio.

$$2\frac{1}{3} : 3$$

Answer : [2]

4 Find the next **two** terms in the following sequence.

1, 2, 4, 8,, [2]

5 Dave runs 5 km every morning. The time he runs this distance is 1.25 hours.
Calculate the speed of his run every morning.

Answer km/h [2]

6 There are 6 200 wild animals in a Game Park. 3% of the wild animals in the park die during the drought.
Calculate the number of wild animals that **survived** the drought.

Answer animals [3]

7 Complete the table.

Fraction form	Decimal notation	Percentage (%)
$1\frac{1}{4}$	(a)	125%
(b)	0.67	67%

[2]

8 Robert invested N\$6 500.00 at 16% compounded annually.
Calculate the amount of money he received if he invested the money for 4 years.

Answer N\$ [3]

9 Convert N\$475 into Pulas if N\$1.00 = 0.96 pula.

Answer pula [2]

10 The price of a dish washing liquid is N\$25.00. If the 15% VAT is added to this price,
calculate the amount of VAT on the price of dish washing liquid.

Answer N\$ [2]

11 Ms Eises is the owner of Furniture Circle. She makes a loss of N\$2 000.00 when
she sold a table for N\$7 500.00.

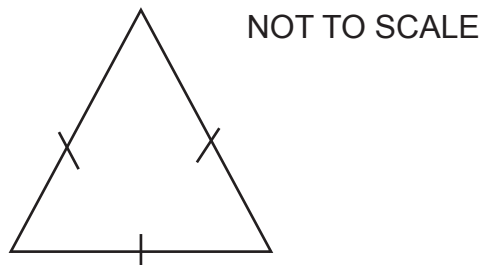
Find the cost price of the table.

Answer N\$ [1]

12 Convert 36 000 m² to hectares.

Answer ha [1]

13 (a)

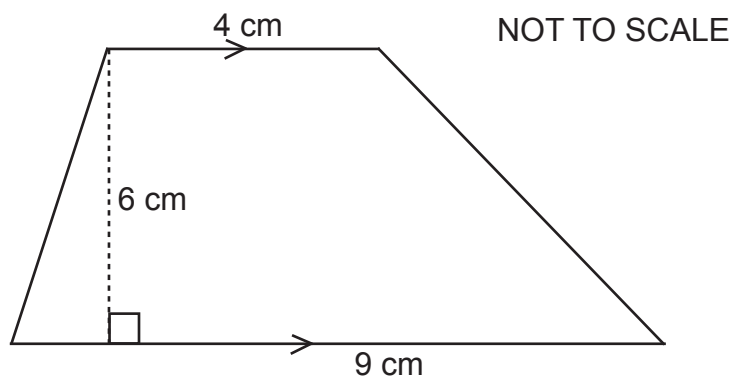


The perimeter of the equilateral triangle is 21 cm.

Find the length of one of its sides.

Answer (a) cm [2]

(b) Calculate the area of the trapezium.



Answer (b)cm² [2]

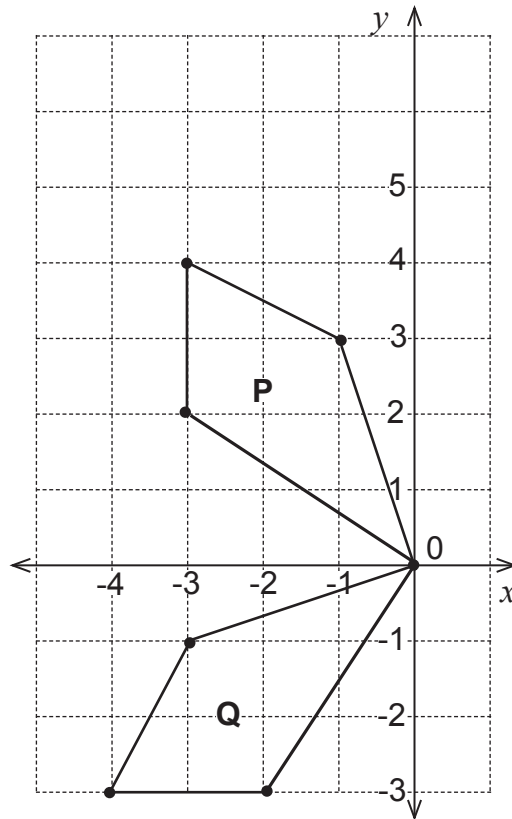
14 (a) Calculate the sum of the interior angles of a regular heptagon.

Answer (a)° [2]

(b) Calculate the size of **one** of the interior angles of a regular heptagon .

Answer (b)° [1]

15



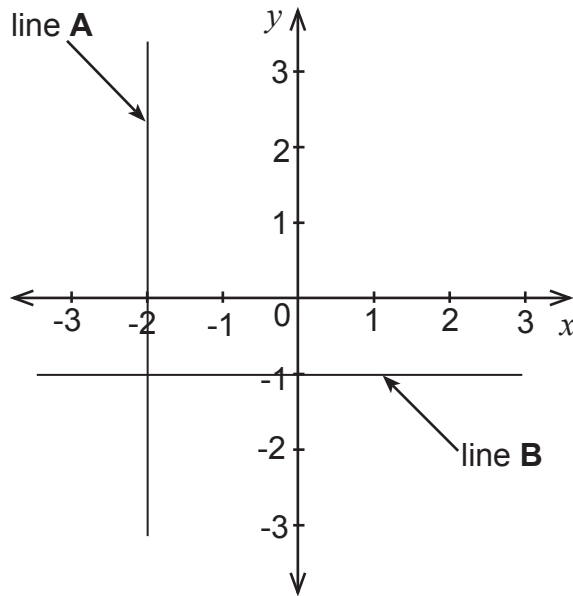
Describe fully the single transformation that maps figure **P** onto **Q**.

Answer
..... [3]

16 Solve for x $2(6 - x) = -10$.

Answer $x =$ [3]

17



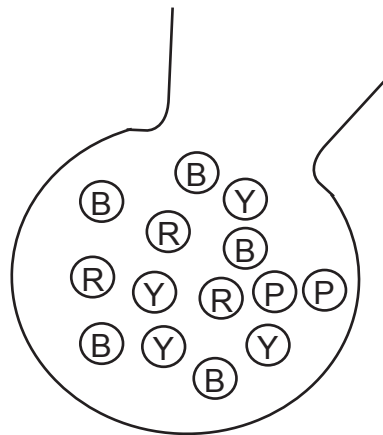
(a) Write down the equation of line **A**.

Answer (a) [1]

(b) Find the coordinates of the point of intersection of line **A** with line **B**.

Answer (b) (..... ,) [2]

18 (a) The bag holds different coloured marbles, 3 red, 4 yellow, 5 blue and 2 pink.



Key: B - Blue
P - Pink
R - Red
Y - Yellow

If John chooses a marble at random.

Find the probability that the marble chosen will be

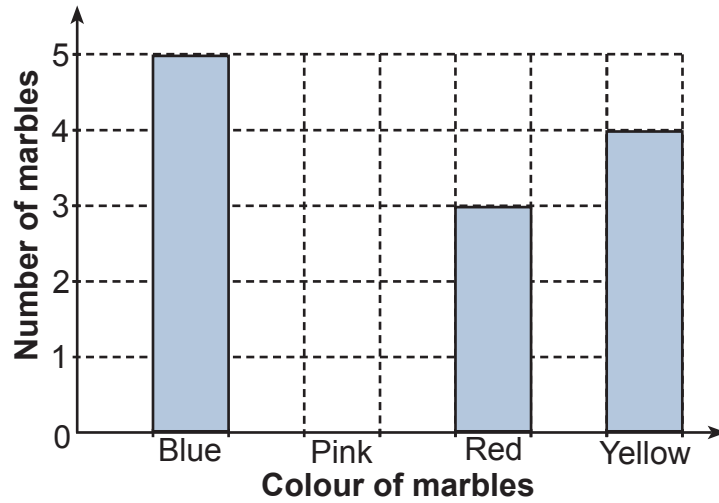
(i) red,

Answer (a) (i) [1]

(ii) green.

Answer (a) (ii) [1]

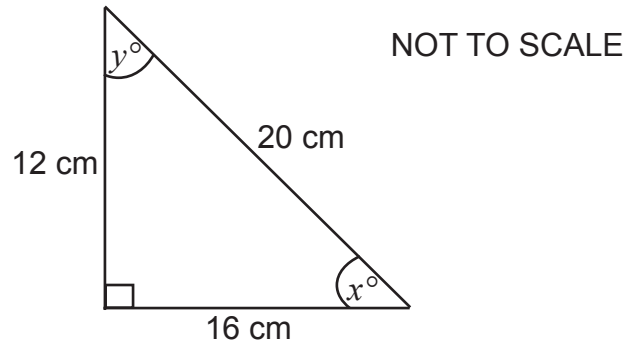
(b) The number of marbles in the bag are represented on the bar graph below.



On the bar graph above draw the bar representing pink marbles.

[1]

19



Write down the ratio as a fraction of

(a) $\tan x$,

Answer (a) [1]

(b) $\cos y$.

Answer (b) [1]