



SECOND TERM TEST 2019

Grade 07

MATHEMATICS

Two hours

Name / Index No. :

PART - I

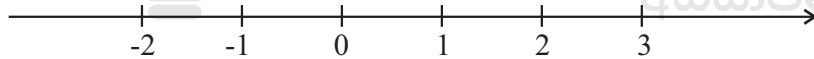
- Answer the questions from 01 - 20 on the paper itself.
- Each question in Part I carries 2 marks.

01. Select and underline the improper fractions from the followings.

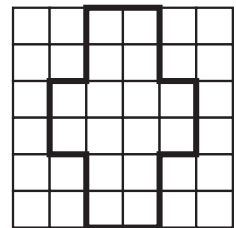
$$\frac{2}{3}, \frac{7}{5}, 1\frac{2}{3}, \frac{5}{4}, \frac{2}{5}$$

02. Simplify, $2 + 4 \times 2$

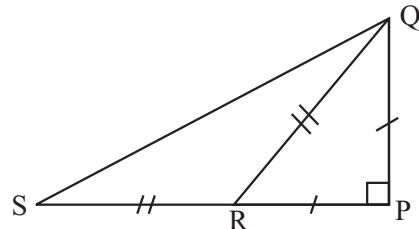
03. Find the value of $2 + (-3)$ using the number line.



04. Draw all the axes of symmetry of the figure.



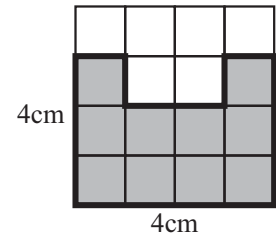
05. Name a scalene triangle and a right angled isosceles triangle in the figure given below.



06. The height of Samantha who is in grade 7A, is 145cm. Express her height in metres.

07. Simplify, $2a + 3b - a + b$

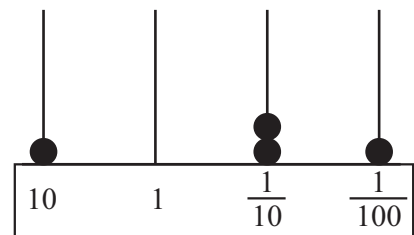
08. Find the perimeter of the shaded part.



09. What is the radius of a circle drawn by taking the straight line segment $AB = 10\text{cm}$ as its diameter?

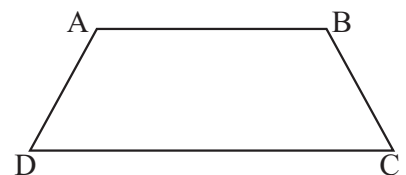
10. What could be the minimum number of sides of a concave polygon?

11. Write the number illustrated in the abacus.



12. $A = \{\text{Multiples of 2 from 1 to 10}\}$ Write set A as a list of elements within curly brackets.

13. ABCD is a trapezium. Mark the pair of parallel sides of this figure using symbols.

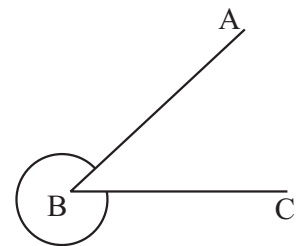


14. If, $8 = 2 \times 2 \times 2 = 2^3$
 $12 = 2 \times 2 \times 3 = 2^2 \times 3$
 $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$

Find the least common multiple of 8, 12, 24

15. Kaveesha's date of birth is 2009.04.08. Ameesha is younger than her by 4 years 3 months and 9 days. Find Ameesha's date of birth.

16. Name the angle marked in the diagram.

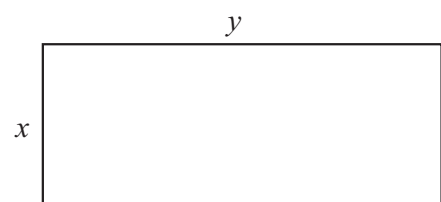


17. The volume of a cuboid shaped wooden block is 100cm^3 . If its length and breadth are 10cm and 5cm respectively. Find the height of the wooden block.

18. Express in millilitres, $5\text{ l } 50\text{ ml}$

19. Name two regular polygons.

20. The area of the rectangle given below is A. Build up a simple formula for the area (A) in terms of x and y.

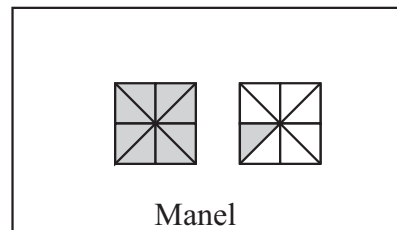
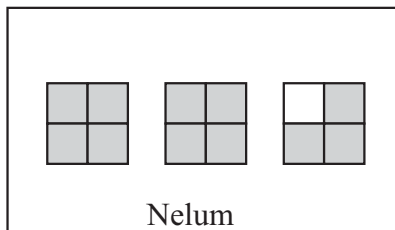


PART - II

- Answer the 1st question and 04 other questions.
 - First question carries 16 marks and all the other questions carry 11 marks each.
-

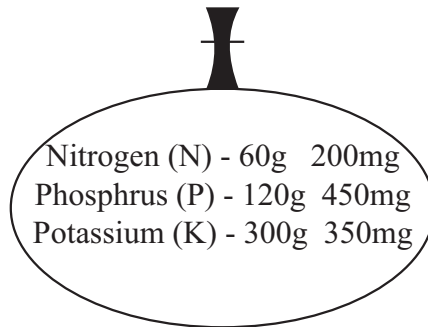
01. (a) Remind the activity that you have done in the lesson "circles".
- (i) Name the mathematical instrument used to draw circles in that activity. (01 mark)
- (ii) Construct a circle of radius 3cm, by using that instrument. (02 marks)
- (b) (i) Draw a straight line segment PQ such that $PQ = 6\text{cm}$. (01 mark)
- (ii) Draw a circle of radius 4cm, by taking P as the centre. (01 mark)
- (iii) Draw a circle of radius 4cm, by taking Q as the centre. (01 mark)
- (iv) Name the two intersection points of the circles as R and S. (02 marks)
- (v) Complete the two triangles PRQ and PSQ by joining the relevant points. (02 marks)
- (c) (i) To what type of triangles does PRQ triangle belong, when classifying triangles according to their sides? (02 marks)
- (ii) To what type of triangles does PRQ triangle belong, when classifying triangles according to their angles? (02 marks)
- (iii) Kumara says that the quadrilateral PRQS is a regular polygon. Do you agree with him? Give reasons. (02 marks)
-

02. The diagrams given below show the amounts of chocolates received by Nelum and Manel.



- (i) Write the amounts of chocolates received by Nelum and Manel separately. (02 marks)
- (ii) Express the amounts of chocolates received by Nelum and Manel as improper fractions. (02 marks)
- (iii) What is the total amount of chocolates received by both? (02 marks)
- (iv) How many more chocolates received by Nelum than Manel? (02 marks)
- (iv) Express the amount of chocolates received by Manel as a decimal. (03 marks)
-

03. The masses of Nitrogen, Potassium and Phosphorus in a bag of N.P.K. fertilizer are marked as follows.



- (a) (i) Find the total mass of the nutrients in this bag of fertilizer. (02 marks)
- (ii) Write the mass of Nitrogen in the bag of fertilizer in mg. (02 marks)
- (iii) If the total mass of the bag of fertilizer is 500g, find the mass of the empty bag. (02 marks)

(b) Simplify,

(i)

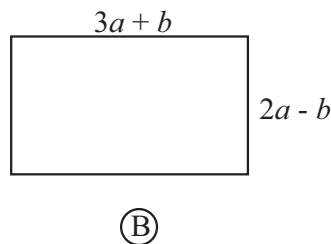
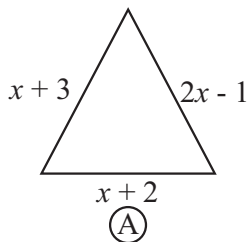
$$\begin{array}{r}
 \text{g} \quad \text{mg} \\
 7 \quad 480 \\
 \times \quad 6 \\
 \hline
 \hline
 \end{array}$$

(02 marks)

(ii) $10\text{g } 611\text{mg} \div 9$

(03 marks)

04. (a)



- (i) Express the perimeter of figure (A), as an algebraic expression. (01 mark)
- (ii) Simplify the above expression and write it in the simplest form. (02 marks)
- (iii) If $a=6, b=2$, obtain the values of the length and breadth of the rectangle. (04 marks)
- (iv) Find the area of figure (B), using the values you obtained above. (01 mark)

(b) Simplify,

(i)

$$\begin{array}{r}
 \text{m} \quad \text{cm} \\
 7 \quad 65 \\
 + \quad 2 \quad 25 \\
 \hline
 \hline
 \end{array}$$

(01 mark)

(ii)

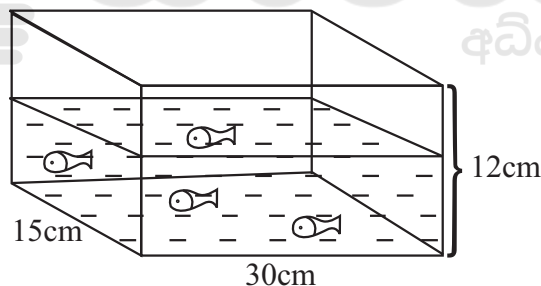
$$\begin{array}{r}
 \text{cm} \quad \text{mm} \\
 35 \quad 8 \\
 - \quad 22 \quad 9 \\
 \hline
 \hline
 \end{array}$$

(02 marks)

05. (a) (i) Write 125 as a power with base 5. (02 marks)
 (ii) Expand, 3^2x^3 (02 marks)
 (iii) Find the value of a^3b^2 , when $a=3$ and $b=2$. (02 marks)
- (b) Evaluate,
 (i) 4.52×10 (01mark)
 (ii) 0.875×6 (02 marks)
 (iii) $8.94 \div 3$ (02 marks)

06. (a) Build up simple equations for each of the situations given below.
 (i) When 4 is added to x , the result is 12. (02 marks)
 (ii) When 3 is subtracted from twice of a , the result is 7. (02 marks)
- (b) Solve,
 (i) $x+7 = 15$ (02 marks)
 (ii) $3x - 2 = 13$ (02 marks)
- (c) Solve the equation $2x + 1 = 5$, using a flow diagram. (03 marks)

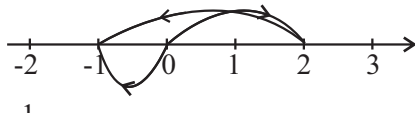
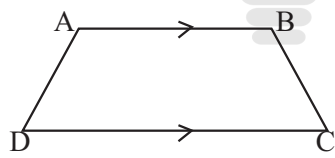
07. Amasha took the measurements of the fish tank and noted down in a diagram as follows.



- (i) Find the area of the base of the tank. (02 marks)
 (ii) If the tank is filled with water to a height of 10cm, find the volume of water in the tank in cm^3 . (02 marks)
 (iii) If $1\text{cm}^3 = 1\text{ml}$, find the volume of water in the tank in ml . (02 marks)
 (iv) Find the volume of the empty space of the tank in cm^3 . (02 marks)
 (v) If Amasha decided to decorate the open end of the tank by pasting a green colour tape, calculate the minimum length of the tape she needs. (03 marks)

ANSWER PAPER

PART - I

01.	$\frac{7}{5}$ $\frac{5}{4}$	01	02																
02.	$2 + 8$ 10	01	02																
03.	 -1	01	02																
04.	2 ක් ඇඳීම	02	02																
05.	PSQ Δ PQR Δ	01	02																
06.	$145 \div 100$ $1.45m$	02	02																
07.	$a + 4b$	02	02																
08.	16cm	02	02																
09.	අරය 5cm	02	02																
10.	4 කි	02	02																
11.	10.21	02	02																
12.	$A = \{2, 4, 6, 8, 10\}$	02	02																
13.		02	02																
14.	$2^3 \times 3$ 24	01	02																
15.	<table style="margin-left: auto; margin-right: auto;"><tr><td></td><td>අ</td><td>මා</td><td>දී</td></tr><tr><td></td><td>2009</td><td>04</td><td>08</td></tr><tr><td>+</td><td>4</td><td>03</td><td>09</td></tr><tr><td></td><td><u>2013</u></td><td><u>07</u></td><td><u>17</u></td></tr></table>		අ	මා	දී		2009	04	08	+	4	03	09		<u>2013</u>	<u>07</u>	<u>17</u>	01	02
	අ	මා	දී																
	2009	04	08																
+	4	03	09																
	<u>2013</u>	<u>07</u>	<u>17</u>																
16.	පරාවර්ත $\hat{A}BC$	02	02																
17.	$\frac{100}{10 \times 5}$ 2	01	02																
18.	5050ml	02	02																
19.	සමචතුරස්‍රය, සමපාද Δ වැනි නිවැරදි පිළිතුරු 2	02	02																
20.	$A = xy$	02	02																
			40																

PART - II

01.	(a) (i) කවකටුව (ii) නිර්මාණයට	01	03
	(b) (i) නිර්මාණයට (ii) නිර්මාණයට (iii) නිර්මාණයට (iv) නම් කිරීමට (v) නිර්මාණයට	01	07
	(c) (i) සමද්විපාද ත්‍රිකෝණ (ii) මහාකෝණික ත්‍රිකෝණ (iii) නැත පාද සමාන වුවද කෝණ සමාන නොවන බැවින්	02	06
			16
02.	(i) නෙළුමට $-2 \frac{3}{4}$ මානෙල්ට $-1 \frac{1}{8}$	01	02
	(ii) $\frac{11}{4}$ $\frac{9}{8}$	01	02
	(iii) $2 \frac{3}{4} + 1 \frac{1}{8}$ $(2 + 1) + \left(\frac{3}{4} + \frac{1}{8}\right)$ $3 + \frac{7}{8}$ $3 \frac{7}{8}$ ඕනෑම ක්‍රමයකට	01	02
	(iv) $2 \frac{3}{4} - 1 \frac{1}{8}$ $(2 - 1) + \left(\frac{3}{4} - \frac{1}{8}\right)$ $1 + \frac{5}{8}$ $1 \frac{5}{8}$	01	02
	(v) $1 \frac{1}{8}$ $1 + \frac{1}{8} \times 125$ $1 + \frac{125}{1000}$ 1.125	01	03
			11

පිළිතුරු පත්‍රය

03.	<p>(a) (i) $\begin{array}{r} \text{g} \quad \text{mg} \\ 60 \quad 200 \\ 120 \quad 450 \\ + 300 \quad 350 \\ \hline 481 \quad 000 \end{array}$ 481g</p> <p>(ii) 60200mg</p> <p>(iii) $\begin{array}{r} \text{g} \\ 500 \\ - 481 \\ \hline 19 \text{ g} \end{array}$</p> <p>(b) (i) 44g 680mg</p> <p>(ii) $\begin{array}{r} 1 \quad 179 \\ 9 \overline{) 10 \quad 611} \\ \underline{9} \\ 1 \rightarrow 1000 \\ \underline{1611} \\ \underline{1611} \\ 0 \end{array}$</p>	02 02 01 01 02 02 02 03	02 02 02 02 03 <u>11</u>
04.	<p>(a) (i) $x + 3 + 2x - 1 + x + 2$</p> <p>(ii) $x + 2x + x + 3 - 1 + 2$ $4x + 4$</p> <p>(iii) $\left. \begin{array}{l} \text{දිග} = 3a + b \\ = 3 \times 6 + 2 \\ = 20 \end{array} \right\}$</p> <p>$\left. \begin{array}{l} \text{පළල} = 2a - b \\ = 2 \times 6 - 2 \\ = 10 \end{array} \right\}$</p> <p>(iv) $20 \times 10 = 200$</p> <p>(b) (i) 9m 90cm</p> <p>(ii) 12cm 9mm</p>	01 01 01 01 01 01 01 01 01 02	01 01 02 01 01 01 04 01 01 <u>11</u>
05.	<p>(a) (i) 5^3</p> <p>(ii) $3 \times 3 \times x \times x \times x$</p> <p>(iii) $a^3 b^2$ $3^3 \times 2^2$ 27×4 108</p> <p>(b) (i) 45.2</p> <p>(ii) 5.250</p> <p>(iii) 2.98</p>	02 02 01 01 02 01 02 02 02	02 02 02 02 02 <u>11</u>
06.	<p>(a) (i) $x + 4 = 12$</p> <p>(ii) $2a - 3 = 7$</p> <p>(b) (i) $x + 7 - 7 = 15 - 7$ $x = 8$</p> <p>(ii) $3x - 2 + 2 = 13 + 2$ $3x = 15$ $x = 5$</p> <p>(c) නිවැරදි ගැලීම් සටහන ප්‍රතිලෝම ගැලීම් සටහන පිළිතුරු</p>	02 02 01 01 01 01 01 01	02 02 02 02 02 02 <u>11</u>
07.	<p>(i) 30×15 450cm^2</p> <p>(ii) 450×10 4500cm^3</p> <p>(iii) 4500ml</p> <p>(iv) 450×2 900cm^3</p> <p>(v) පරිමිතිය = $30 + 30 + 15 + 15$ $= 90\text{cm}$ දිග 90cm</p>	01 01 01 01 01 01 01	02 02 02 02 03 <u>11</u>

2025

1ம் தவணை வகுப்புகள்

தரம் 6 முதல் 11 வரையான
மாணவர்களிற்கான தமிழ் மற்றும் ஆங்கில
மொழிமூல வகுப்புக்கள் ஆரம்பமாகவுள்ளன.

ஆரம்பம் 01.01.2025



இலங்கையின் எப்பாகத்திலிருந்தும்
Zoom app மூலம் எமது வகுப்புகளில்
இணைந்து கொள்ள முடியும்.

அனைத்துப் பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ்...



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