සියල ම හිමිකම් ඇව්රිණි]

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|----|---|--|--|--|---|
| | විස්නාහිර පළාත් අධනපන දෙපාර්තමේන්තු ඔහුණ unstanak නේඛන් න්තාෂාක්ෂයක Western Provincial Education Dep විස්නාහිර පළාත් අධනපන දෙපාර්තමේ ශ්රා හා පැනකක් නේඛන් න්තාෂායක Western Provincial Education Dep වස්තාහිර පළාත් අධනපත දෙපාර්තමේ ශ්රා පැනකක් නේඛන් න්තාෂාක්ෂයක Western Provincial Education Departm | ු කොළඹ අධනපත කලාපය වස්තාපිර පළාත් අධනපත දෙපාර්තමේන් ස්තානිර පළාත් අධනාපත දෙපාර්තමේ ආගරා ගැසැഞාස් සබාඛාත් නිශාණාස්ය (estern Provincial Education Departn ent - Colombo Educational Zone Western Provincial Educatio | ஜு - வைகுள் எப்பாகல் வழக்கு மிகிலைக் லீற்றூற் - வைகுள் எப்பாக வாம் - கொழும்பு கல்ல nent - Colombo Educat n Department - Colombo Educational | පළාත් අධනපන දෙපාර්තමේන්තුව - බොලාපාර කෝ බොහැ[]ාර්ත cial Educ තබෝ බොහැ[]ාර්ත cial Educ තමන්තුව cargo cial Educ cargo car |) - කොළඹ ආධිතපන දෙපාර්තමේන්තු ඩ්දා යන්නේ බහොඩා ඕගේ ගැනතෙස් zation Department – Colombo Ed) - කොළඹ ආධිතපන දෙපාර්තමේන්තු ඩ්දා යන්නේ බහොඩා ඕගේ ගැනතෙස් zation Department – Colombo Ed) - කොළඹ ආධිතපන දෙපාර්තමේන්තු ඩ්දා යන්නේ බහොඩා ඕගේ ගැනතෙස් zation Department – Colombo Ed |
| | | දෙවන වාර ඇග இரண்டாம் தவணை | பேறை பிறையில் பிறையில் பிறையில் பிறையில் பிறை பிறையில் பிறையில் பிற | 2017 2017 | |
| | | Second Term | Evaluation - | 2017 | |
| | 8 எஞ்னிය தரம் 8 Grade 8 | ென்வை கணிதம் Mathemati | cs | சாக சேவ இரண்டு ம Two Hou | கே ஸித்தியாலங்கள் rs |
| | Name/Index No : | | | | |
| | | PART | Ι | | |
| • | Answer all questions on this paper itself. | | | | |
| • | Each question gets | 2 marks. | | | |
| 1. | Find the next term | of the number pattern. | | | |
| | 3, 6, 10, 15, | | | | |
| 2. | Arrange the follow | ing in ascending order. | and a set | ucation | |
| | 57.0mm, 5.70m, 5 | 7 cm Education | D General la | | |
| | | 6-5025 | and the | | |
| 3. | Name a pair of com | plementry angles of the giver | n diagram. | В | C D |
| | | The Waltonale | | අධියාප | E |
| | | | Α | I | 2 |
| 4. | Evaluate $\sqrt{36} - 6$ | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 5. | An incomplete net | of an octahedron is given belo | ow. Complete the r | est. | |
| | \wedge | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 6. | Give five $\frac{1}{3}$ s as | | | | |
| | i) An improper fr | action | | | |
| | ii) A mixed numbe | r | | | |
| | | | | | |

| 7. | Draw a rhombus, Does it has the bi-lateral symmetry? If so, draw it. |
|-----|--|
| | |
| | |
| | |
| 8. | Find the value of $(+3) - (-4)$ using the given number line. |
| | |
| | |
| 9. | Arrange the following in descending order. |
| | $(-1)^4$, $(-1)^3$, $(-2)^3$ |
| | |
| | |
| 10. | Find the magnitude of a and b of the given diagram. |
| | b a |
| | Education O Coversification 45 |
| 11. | Solve $2x + 3 = 15$ |
| | |
| | අධියාපන |
| | |
| 12. | Calculate the total surface area of a cube of side 60 cm. |
| | |
| | |
| 10 | |
| 13. | Write an equivalent ratio to 3:4 |
| | |
| | |
| 14. | Calculate the perimeter of the given figure. |
| | 12cm |
| | |
| | 18cm |

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- Write the answers for the question number 1 and four others on a separate paper and attach it to the Part I.
- Question No 1 carries 16 marks and, all the others get 11 marks each.



b) There are three types of Rubic cubes in a shop for sale as follows.

Price of a cube of type A= Rs. 450Price of a cube of type B= Rs. 250Price of a cube of type C= Rs. 150

One day, *x* number of type A,

y number of type B and 4 cubes of type C was sold.

Give the following as an algebraic expressions.

- i) Total number of Rubic cubes sold.
- ii) The total income by selling them.
- iii) If x = 8 and y = 6 then find the total income of that particular day.
- c) Evaluate

i) (-5) + (+3) = ii) (-5) + (+3) = iii) $(-5) \times (-3) =$

- a) Kamal started a business in 1st of January 2016 investing Rs. 35 000. After 3 months Shiva joined by investing Rs. 56 000. After another two months Cassim joined by investing Rs. 60 000. There profit after one year is Rs. 128 000. They decided to share the profit according to the time and the investment.
 - i) Give the simplest ratio of the profit distribution among three of them.
 - ii) According to that calculate the amount they get separately.
 - b) i) In another year Kamal get Rs. 14 000 as his profit, calculate the percentage of the profit out of his investment Rs. 35 000.
 - ii) If Shiva gets Rs. 19 200 as his profit in another year, give the profit as a fraction out of his investment Rs. 56 000.
 - c) Flour and sugar is mixed to the ratio 6:5 and flour and butter is mixed as 4:3 to make some sweets. Give the compound ratio between flour, sugar and butter in simplest form.



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| 5. | a) | Simplify | | | | |
|----|----|--|--|--|--|--|
| | | i) $1\frac{2}{3} - \frac{1}{6} + \frac{1}{2}$ ii) $\frac{3}{5} \times \frac{1}{2} \div 3\frac{1}{3}$ iii) $3\frac{1}{4} \div 6\frac{1}{2}$ | | | | |
| | b) | range these in ascending order. | | | | |
| | | $6, 65\%, \frac{3}{5}$ | | | | |
| | c) | an assessment, Tharaka got 12 out of 25 for Mathematics and for science 16 out of 20. | | | | |
| | | Give the percentage of marks of Mathematics. | | | | |
| | | Find the percentage of marks of Science. | | | | |
| | | iii) Which subject he has done better. | | | | |
| 6. | a) |) i) What is a null set? | | | | |
| | | ii) Give an example for a null set. | | | | |
| | b) | Complete the blanks with \in or $\not\in$ | | | | |
| | | i) 1 {Prime Numbers} | | | | |
| | | ii) Hen | | | | |
| | | iii) a {vowel of an alphabet} | | | | |
| | c) | List out the following sets with in curly brackets. | | | | |
| | | A = {multiples of 12 between 0 and 10} අධියාපන | | | | |
| | | B = {The letters of the word "KALAPALUWAWA"} | | | | |
| | | $C = \{even numbers between 0 and 10\}$ | | | | |
| | | ii) Find n(A), n(B), n(C) according to that. | | | | |
| 7. | a) | Consider the number sequence 10, 13, 16, 19, | | | | |
| | | i) Find the difference between two consecutive terms. | | | | |
| | | ii) Complete the blanks $10 = \square \times 1 + 7$ | | | | |
| | | $13 \qquad = \boxed{\times 2 + }$ | | | | |
| | | $16 = \times \times + \times$ | | | | |
| | | $n^{th} term = $ × $n + $ | | | | |
| | | iii) Find the 12 th term of the above sequence. | | | | |
| | b) |) i) Find the smallest number which is divisible by 2, 3, 4 and 5 with out a remainde | | | | |
| | | ii) Find the highest common factor of 30 and 48 | | | | |

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