

කොට්ඨාසඅධ්‍යාපනකාර්යාලය - රත්නපුර
Divisional Education Office – Rathnapura

පළමුවාර්ෂික පරීක්ෂණය - 2020
First Term test -2020

7
Grade 7

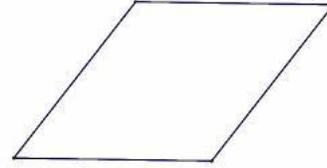
ගණිතය
Mathematics

පැය දෙකයි
Two Hours

Part I

Answer all questions.

01) Draw all symmetric axes of the given rhombus



02) Find the digital root of 5064

03) Write all factors of 24 and underline prime factors

04) Find the value. $2^2 \times 3^2$

05) Express the set $A = \{\text{Composite numbers less than 10}\}$ by Venn diagram.

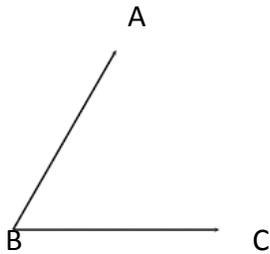
06) Find the L.C.M. of 15, 20, 24

07) What are the 1st day and the last day of the 21st century?

08) Simplify. $(-7) + 5$

09) $2x^2 \times y \times y \times z \times z \times z \times z$ write in index notation.

10) Measure and write the magnitude of the following angle.

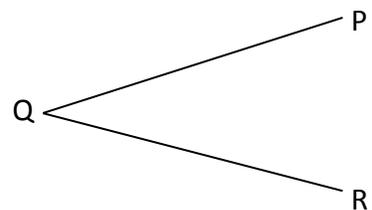


11) Simplify. $12 - 8 - 4 \times 3$

12) Fill in the blank with the suitable digit if the number $67\boxed{}4$ to be divisible by 4.

13) If,
 $12 = 2 \times 2 \times 3$
 $18 = 2 \times 3 \times 3$ find the H.C.F. of 12 and 18

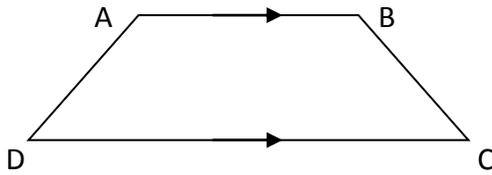
14) Name the vertex and a arm of the given angle.



15) Write 81 in the index notation with 3 as the base.

16) Express 240 minutes in hours.

17) Name the pair of parallel lines of the given figure.



18) A three wheeler charges 50/= for the 1st1km and Rs.60 per kilometer thereafter. Write an expression that Tharindhu has to pay if he travels 8km by this three wheeler.

19) Write 2 objects which have parallel edges.

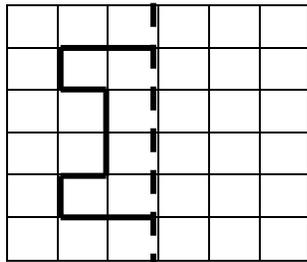
20) What is the smallest number which has 1 as the remainder when it is divided by 2, 3, and 4?

Part II

Answer only 05 questions

A.

01)



I) Complete the figure. (02 marks)

II) Draw symmetric axes of the figure. (02 marks)

B.

I) Kasuni tells that "Parallelogram has no symmetric axes." Do you agree with the statement? Write reasons for your answer. (02 marks)

II) Draw ABCD square by using set square and a ruler. (03 marks)

III) Join AC and draw a parallel line for AC through the point B. (03 marks)

02)

A. Simplify by using the number line.

I) $5 + (-2)$

II) $(-2) + (-1)$

III) $(-3) + 3$ (06 marks)

B. Fill in the blanks with suitable digits.

I) $(-2) + \square = (-6)$

II) $5 + \square = (-7)$ (02 marks)

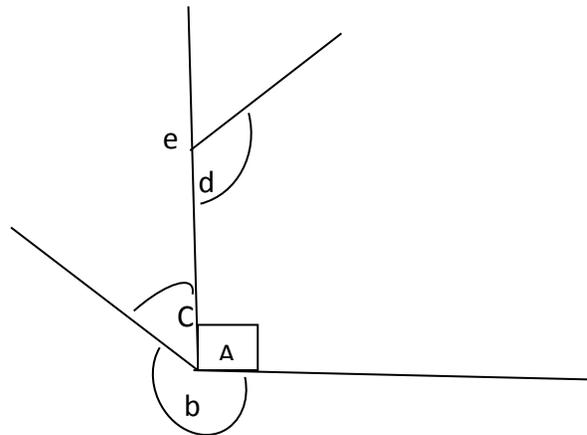
C. Simplify.

$(-5.82) + 12.5$ (02 marks)

D. Find the value.

$2 + 6 (12 \div 4) \times 8$ (02 marks)

03) A. Write the type of the a, b, c, d, e angles. (05 marks)



B. Join to the correct types of angles given below.

Vertex of a book

Angle Between two hands of a clock

Vertex of a door

Vertex of a white board

Static angle

Dynamic

(04 marks)

C. Draw an angle 280° and name it as PQR

(03 marks)

06)

A. Express 72 as a product of prime factors. (02 marks)

B. Wikum takes 2 types of tablets for his illness. He takes these tablets once in 4 hours and 5 hours respectively. If he takes these two tablets at 7.00 a.m., what is the time he will take these two tablets again at once? (03 marks)

C.

I) Write first 05 multiples of 18. (03 marks)

II) Write first 05 multiples of 27. (03 marks)

III) What are the common multiples of 18 and 27 among the above mentioned multiples? (01 mark)

07)

A. Fill in the blanks with suitable digits.

$$64 = 2^{\square} = 4^{\square} = \square^2 \quad (06 \text{ marks})$$

B. If $x=2$ and $y=3$ find the value of the following expressions.

I) $2x^2y$ II) $3xy^2$ (04 marks)

C) Expand the given expressions.

I) $2^3m^2n^3$ II) a^3b^4 (02 marks)