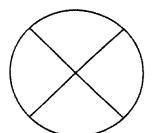
වර්ෂ අවසාන ඇගයිම - 2021 Year End Evaluation - 2021		
Grade 8	Mathematics	Time- 2 hours
Name Answer all the questio Each question carries (	ns in this paper itself.	Class
	Part 1	
(1) In the number patter ascending order. Find	n of the multiples of 15 starting fro the general term.	m 15 and written in
2) The mass of a concrete pillars.	pillar is 2 t 40 $kg$ . Find the total ma	ss of 6 such concrete
3) Find the value of (-1) <sup>5</sup> >		
7 cm 6 cm 6 cm 7 cm	4.5 cm	
At an angle of magnitud	e 35 <sup>°</sup> ,	
(.)	of the complementary angle.	'
(I) Find the magnitude of		
	of the supplementary angle.	

, ,

۲ ,

Grade 8 - Mathematics

(7) A circular surface shaped piece of wood was cut into 4 pieces of the same shape as shown in the figure. What is the geometric name of the surface shape of one piece?



1

ŧ

ŧ

(8) Find the value.

(i) (-9) - (+11) =(ii)  $(-12) \div (-4) =$ 

(9) (i) What is the number of bilateral symmetrical axes of a rhombus?

(ii) What is the order of rotational symmetry of a regular pentagon?

(10) The values of the four exterior angles of a square are 55  $^{0}$ , 70  $^{0}$ ,  $x^{0}$  And 115  $^{0}$ . Find the value that x can take.

(11) Write two examples of Platonic solids.

(12) Find the square root of 324 using the prime factors.

(13) 30 % employees working in an organization are male. If the number of female employees in the organization is 42, find the total number of employees.

(14) Write two plane figures that can be used to create a regular tessellation.

(15) Find the probability of getting a number less than 4 when a regular tetrahedron with its face numbered 1 to 4 is rolled.

(16) Represent the inequality  $-3 < x \le 0$  on a number line.

(17) Write down the direction of A as seen from O.

ŧ

ŧ

(18) Find the capacity of a cuboid shaped container of length, width and height are4.5 m, 0.6 m and 4 m respectively.

(19) Calculate the time in Los Angeles, USA when the time in Sri Lanka  $(+5\frac{1}{2})$  is 6.25 pm on 2022.02.22 (Los Angeles City Time Zone is -8)

(20) The difference between two consecutive square numbers from 1 till 50 is a square number. Write those two square numbers.

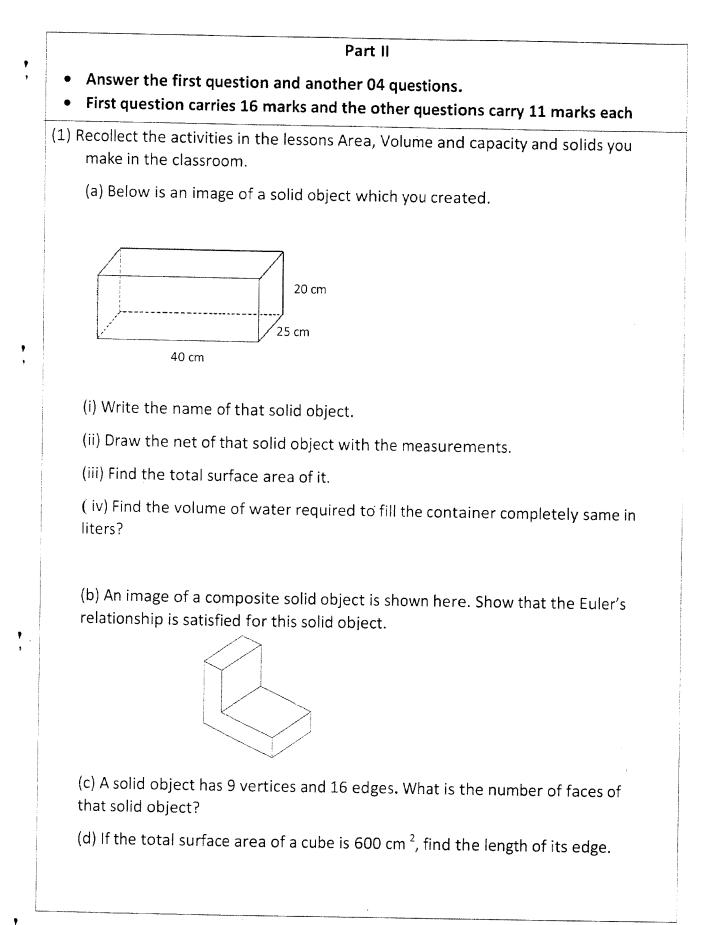
Ν

Ο

Ş

70<sup>0</sup>

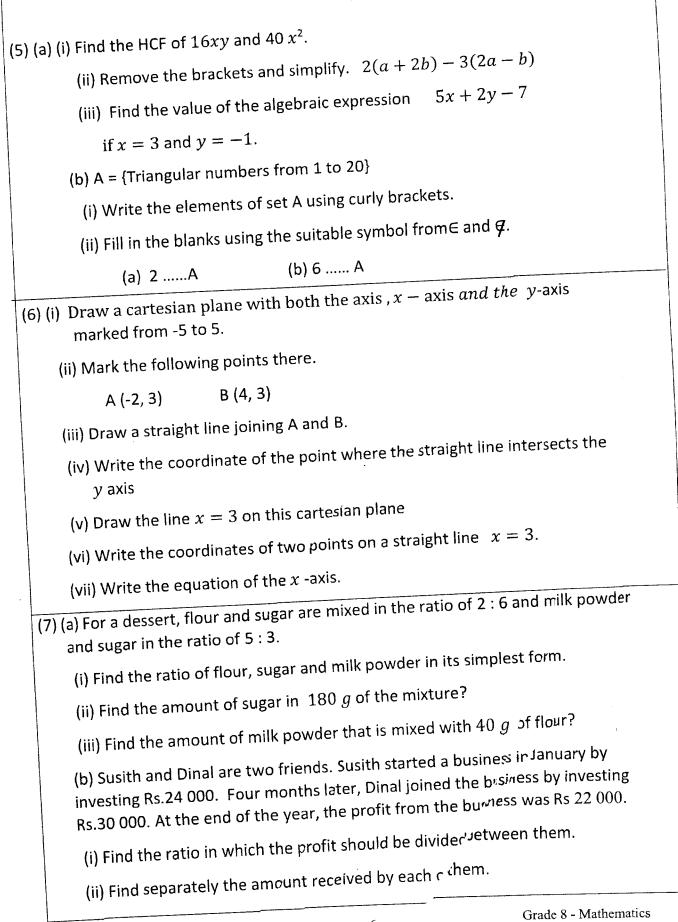
E



4

(2) The marks obtained for a mathematics paper of grade 8A students are as follows. 59 39 90 86 91 88 13 63 86 75 86 46 12 98 24 32 7 (i) Find the number of students in the class ? (ii) Find the minimum mark obtained by the students? (iii) Find the maximum mark obtained by the students ? ( iv) Find the range of marks obtained by the students . (v) Represent these data in a stem and leaf diagram. (vi) From the marks obtained by the above students, (a) Find the mode. (b) Find the median. ŧ (3) In the triangle ABC AB = 7 cm, BC = 5 cm and AC = 6 cm. (i) Construct the ABC triangle using the straight edge and the pair of compasses. (ii) What kind of triangle is the ABC triangle according to the lengths of the sides? (iii) Measure and write the magnitude of the angles of the triangle ABC. (IV) What type of triangle is the ABC triangle according to the magnitude of the angles? (v) Can the lengths 7 cm, 16 cm and 8 cm be the lengths of the side of a triangle? Give reasons for your answer. , (4) (a) Simplify. (i)  $2\frac{1}{3} + 1\frac{2}{5}$ (ii)  $1\frac{1}{4} \times 6\frac{2}{5}$ (iii)  $8\frac{2}{6} \div 18\frac{1}{3}$ (b) (i) Find the value of  $7875 \div 14$  . (ii) According to the answer 7875  $\div$  14 ,find the value of 78.75 $\div$  1.4 . Grade 8 - Mathematics 5

1



ł.