11

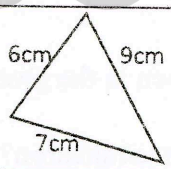
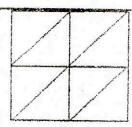
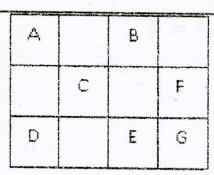
Zonal Education Center
Vavuniya South
3rd Term Examinations – 2020

Grade: 6 **Mathematics** **Time: 2hrs.**

Name: .....

Part I

Answer all the questions within the space provided.

1. Write the next two terms of the below given triangular number pattern: 1, 3, 6, _____, _____	2. Give two units used to measure mass.
3. Round off 47 to the nearest 10.	4. Fill in the blank: 15 minutes = _____ seconds
5. Write in words: $7 > (-8)$	6. Write the date today in standard form.
7. Give in meter: 23.07km	8. Simplify: $\frac{2}{5} + \frac{3}{7}$
9. What is the place value represented by 2 in the number 82065?	10. Mala left for Colombo by the bus which left by 7.28p.m. Give this time in its standard form.
11. Find the perimeter of the given figure. 	12. Expand and evaluate: $2^3 \times 5^2$
13. Give an equivalent ratio for 3:4.	14. Indicate the number 17 using tally marks.
15. Write four multiples of four that occurs between 1 and 20.	16. Shade the fraction 3/8 in the given diagram. 
17. How is the angle that is equivalent to the magnitude of two right angles called?	18. Simplify: 3582 – 787
19. Give one letter that lies horizontally and one vertically for the letter D. 	20. Draw a straight line that is 7cm long using a ruler.

(20 × 2)

Part II

Answer the first question and any other four questions.

1. Based on the activity that you did in your classroom to measure liquids, answer the following questions:
   i. Write two instruments that you used to measure liquids.
   ii. Write two units that you used to measure liquids.
   iii. Write two scales that were marked in the instruments that you used.

   iv. Suppose that your teacher instructs you to prepare fruit juice for the guests that are to attend a function at your school. You are instructed to mix 1250ml of fruit juice with 1750ml of water.
      a. Write the utensils that you may use to get the above mentioned measurements and how many times they should be used for that.
      b. What is the total quantity of the juice?

   v. Fill in the blanks:
      a. $7l\ 375ml =$ _____ ml
      b. $13000ml =$ _____ l

   vi. Simplify:

      a.

l	ml
3	465 +
2	236

      b.

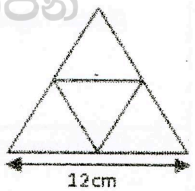
l	ml
18	603 –
9	250

(2+2+2+2+2+1+1+2+2=16)

2.
   i. For each of the following plane figures, give one solid where you could observe the plane figure:
      a. right angle b. square c. triangle

   ii. Write two properties of a square.

   iii. A net diagram of a regular tetrahedron is shown in the given diagram.
      a. What is the shape of a face?
      b. What is the length of an edge of the given tetrahedron?
      c. For the compound solid made by combining two identical tetrahedrons like the one given above, find the number of vertices, edges and faces.



(3 + 2 + 1 + 2 + 3 = 11)

3.
   i. Write the number suitable for each cage in the following:

   $16 = 2^{\square} = 4^{\square}$

   ii. Expand and evaluate: $3^2 \times 2^2$

   iii. Write the number suitable for each cage in the following:

   a. $64 = 2^{\square}$ b. $64 = 4^{\square}$ c. $64 = 8^{\square}$

   iv. Give 1024 as a:
      a. power of 2 b. power of 4

(2 + +2 + 3 + 4 = 11)

4. The following table shows the data about the attendance of grade 6 students of a school over a week:

Day	Attendance
Monday	28
Tuesday	44
Wednesday	40
Thursday	32
Friday	36

i. Draw a pictogram to represent the data given above representing 8 students by one ☺.
ii. Show the number of students that were present on Friday using tally marks.
iii. What is the difference between the highest attendance and the lowest attendance?
iv. What is the total attendance over the week?

$(5 + 2 + 2 + 2 = 11)$

5.

i. Give an equivalent fraction for $\frac{2}{5}$.
ii. Simplify:
   a. $\frac{3}{7} + \frac{2}{7}$
   b. $\frac{1}{3} + \frac{4}{9}$
   c. $0.73 + 0.21$
   d. $15.08 - 3.84$
   e. $\frac{7}{16} + \frac{1}{4}$

$(1 + 2 + 2 + 2 + 2 + 2 = 11)$

6.

i. Using the given numbers, answer the following questions:

836, 457, 950, 653, 895, 2031

   a. Which numbers are completely divisible by 2?
   b. Which numbers are completely divisible by 5?
   c. Which numbers are completely divisible by both 2 and 5?

ii. Fill in the blanks:
   a. $1 \times ____ = 12$
   b. $2 \times ____ = 12$
   c. $3 \times ____ = 12$

iii. Write all the factors of 12.
iv. Write all the factors of 16.
v. What are the common factors of 12 and 16?

$(3 + 3 + 1 + 2 + 2 = 11)$

7.

i.
   a. Which is the greatest number that could be written using each of the digits 8, 2, 3, 5 and 6 only once?
   b. Which is the smallest number that could be written using the same digits each only once?

ii. Give the number 5873650912,
   a. in standard form
   b. in words

iii. What is the difference between the values represented by the digits 8 and 6 in the number 3867?

$(4 + 4 + 3 = 11)$

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