



Entry Test

Academic Session 2019-20

MATHEMATICS

Total Marks **25**

45 min

Class: IG-I(VIII)

Write in block letters:

Candidate Name

Date

Kindly read the instructions carefully;

- 1 Answers must be written in ink.**
- 2 Write the number of question distinctly before each answer.**
- 3 CALCULATOR IS ALLOWED.**

FOR OFFICIAL USE ONLY

Total Marks		Marks Obtained		Percentage	

Q. 1 Write the multiples of 6 which are greater than 20 and less than 50. [1]

Q.2 Encircle prime numbers. [1]

21, 31, 49, 59, 63, 91, 40

Q3. Find the positive square root of 900 [2]

Q4. Express 142.8315 correct to [4]

a) 1 decimal places : _____

b) nearest whole number : _____

c) the nearest hundredth : _____

d) 4 significant figures. _____

Q.5 Factorise:

i. $x^2 + xy + 9x + 9y$ [1]

ii. $(5a - b)(3a - b) - (2a - b)(3a - b)$ [2]

Q.6. Simplify the following [3]

$$\frac{3a + 4}{2} - \frac{2a + 3}{3} = 2$$

Q7. What is 10% of \$40? [1]

Q8. There were 35 children and 10 adults at a cookout. [1+1]

a. What is the ratio of adults to children at the cookout?

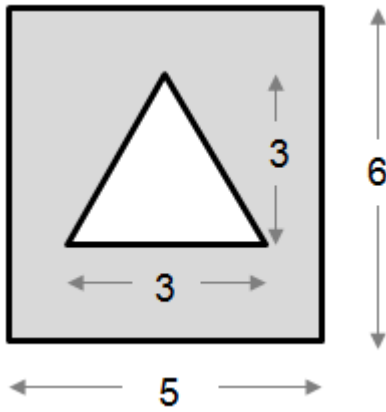
b. What is the ratio of children to total people at the cookout?

Q9. Annie earns \$320 for 8 hours of work. At that rate, how long would she have to work to earn \$1,120? [2]

Q10. A student earned a grade of 80% on a math test that had 20 problems. How many problems on this test did the student answer correctly? [2]

Q11. Find the area of shaded region.

[2]



Q12. Find the perimeter of the figure below.

[2]

