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THE ULTIMATE MATHEMATICS AMBASSADOR 2019



(Annual Mathematics Competition)



STAGE 2: SPEED TEST

TIME ALLOWED: 10 minutes

INSTRUCTIONS

1. This Test consists of 20 questions.
2. This Test is worth 20 marks.
3. Each question is worth 1 mark.
4. Please write your final answer only in the space provided after each question
5. Speed is of great importance in this Test.

INSTRUCTION: Answer all questions in this section.

Write the correct answer in the space provided.

1. The total amount of rainfall during a year is 192cm. This implies that the average monthly rainfall is 18cm.

True or False

Answer: _____

2. Find the value of $9^2 - \sqrt{9}$

Answer: _____

3. What is one-third of twenty five percent of 24?

Answer: _____

4. If $\frac{5}{7}y = 105$, what is the value of y?

Answer: _____

5. Find the median of the numbers 2, 2, 3, 1, 5, 6, 8, 4,

Answer: _____

6. Find the difference between the largest factor and the largest prime factor of 72

Answer: _____

7. Evaluate $\left(1\frac{1}{2} \times \frac{3}{4}\right) \div 3$

Answer: _____

8. 7 machines complete a piece of work in 40 days. If 3 of the machines break down, how long will it now take to complete the work?

Answer: _____ days

9. Find the value of $a - b$, if $a = \frac{2}{3}$ and $b = \frac{1}{5}$

Answer: _____

10. What is the next number in the pattern: 50, 61, 72, 83, ____

Answer: _____

11. Kola spent 2 hours to complete an 11 *km* race while Ali spent an hour to complete a 6 *km* race. Which of the two boys ran faster?

Answer: _____

12. How many vertices does a square-based pyramid have?

Answer: _____

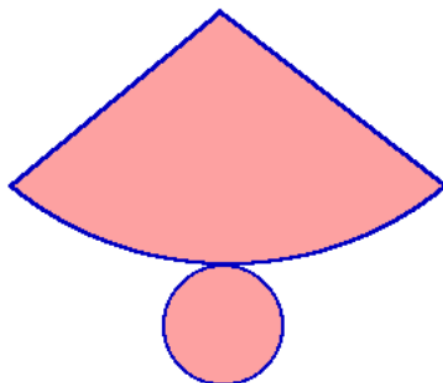
13. A room is 5*m* long and 4*m* wide. What percentage of its width is its length?

Answer: _____%

14. Find x if 30% of 80 = $x\%$ of 300

Answer: _____

15. Which solid figure can be made out of the net shown below?



Answer: _____

16. How many times can a barrel of water of capacity 10 litres be used to fill a drum of well of capacity 50 kilolitres?

Answer: _____

17. What single digit should be placed in the box to make 515□ divisible by 6?

Answer: _____

18. What is the Highest Common Factor of 5 and 6?

Answer: _____

19. Simplify $(4 - 5 + 8) \times 4 - 6 \div 3$

Answer: _____

20. A man is five times as old as his son. In six years' time, the man will be 41 years old. How old is his son now?

Answer: _____ years