THE ULTIMATE MATHEMATICS AMBASSADOR 2020 TUMA

(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. An art teacher has a $\frac{5}{4}m$ long string which she wants to cut into pieces, each $\frac{1}{8}m$ long. How many pieces will she have?

    Answer: _____

2. Given that $57.2 \times 13.15 = 752.18$, then $75.218 \div 57.2$ is

    Answer: _____

3. Express DCIV in Hindu-Arabic numeral.

    Answer: _____

4. If $420.63 is shared equally by 21 students, how much will each student receive?

    *Answer: $*_____

5. How many factors does 50 have?

    Answer: _____

6. What is the probability of obtaining a head when a fair coin is tossed?

    Answer: _____

7. Add together $5kg, 50g$ and $5000mg$, leaving your answer in grammes (g)

    Answer: _____ *g*

8. Find one-third of 3^5

Answer: _____

9. Connie multiplies a number by 2 and gets 60 as her answer. However, she should have divided the number by 2 to get the correct answer. What is the correct answer?

Answer: _____

10. I'm thinking of two whole numbers. Their product is 24 and their sum is 11. What is the larger number?

Answer: _____

11. What is the shape of each face of a solid with six equal faces?

Answer: _____

12. Evaluate $\frac{2^3}{3} \times \left(\frac{3}{4}\right)^2$

Answer: _____

13. The volume of a cube is $27cm^3$. What is the volume of a model cube whose length of sides are reduced to $\frac{1}{3}$ of the original cube?

Answer: _____cm^3

14. Akin is 42 years old. Caroline is 5 years younger than Bode, and Bode is half as old as Akin. How old is Caroline?

Answer: _____ *years*

15. I am a number between 1 and 10. I have exactly two factors. I have exactly two multiples that are two-digit ending in 1. What am I?

Answer: _____

16. What is the Lowest Common Multiple of 1 and 2?

Answer: _____

17. Simplify: $5 - 2 + 3 \times 2 + 6 \div 3$

Answer: _____

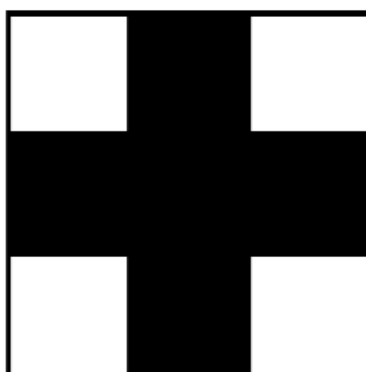18. If the correct time on my watch now is 7:30am, what time will it be on my watch 50 hours from now?

Answer: _____

19. Divide the mean of the following numbers by the median:

2, 4, 6, 8, 10

Answer: _____

20. What fraction of the square below is shaded?

Answer: _____