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13th Edition

THE ULTIMATE MATHEMATICS AMBASSADOR 2025

TUMA 2025

Annual Mathematics Competition

STAGE 2 - OBJECTIVE TEST

TIME ALLOWED: 40 minutes

INSTRUCTIONS

1. This paper consists of 20 multiple-choice questions.
2. Each question in this section is worth 2 marks.
3. Use HB pencil ONLY to shade the appropriate answer from the options labelled A to E in the appropriate section of the answer sheet.
4. Below is a sample of how to shade correctly. For instance, if your answer to a question is option B then shade as indicated.

5. Do not shade more than one option for each question. If you make a mistake, erase neatly with an eraser and then shade your new option.

INSTRUCTIONS: *Answer all questions in this paper.*

Pick the appropriate answer from the options lettered A to E.

Each question is worth two (2) marks.

This paper is worth 40 marks.

1. What is the value of the digit 0 in the number 512 038?

   (a) A thousand (b) A hundred (c) A ten

   (d) A tenth (e) Zero

2. Express 0.002 as a percentage.

   (a) 20% (b) 2% (c) 0.2%

   (d) 0.002% (e) 0.00002%

3. Simplify $\sqrt{61^2 - 60^2}$.

   (a) 1 (b) 11 (c) 60

   (d) 61 (e) 121

4. Ade slept at 12:10am and woke up at 7:40am on the same day. He took siesta at 2:50pm and woke up two hours later. How long did he sleep altogether that day?

   (a) 14hr, 40mins (b) 12hr, 40mins (c) 11hr, 10mins

   (d) 10hr, 20mins (e) 9hr, 30mins

5. Two angles of a quadrilateral are 70^o each. Find the last angle if the third angle is 80^o.

(a) 70° (b) 80° (c) 120°

(d) 140° (e) 180°

6. The ages of three family members are in the ratio 5:2:4. Find the age of the oldest person if the youngest is 18 years old.

(a) 99 years (b) 90 years (c) 63 years

(d) 45 years (e) 30 years

7. Find the area of a trapezium with parallel sides 12cm and 10cm and a height of 15cm.

(a) $330cm^2$ (b) $165cm^2$ (c) $96cm^2$

(d) $37cm^2$ (e) $15cm^2$

8. Five bells toll at intervals of 2, 3, 4, 5, and 6 minutes apart. What is the next time they will toll together again if they tolled together an hour before 12 noon?

(a) 12 noon (b) 12:25pm (c) 1:00pm

(d) 1:15pm (e) 1:40pm

9. A water tank containing 60 litres of water is 50% full. How much water needs to be added to make it two-third full?

(a) 16.6 litres (b) 20 litres (c) 25 litres

(d) 33.3 litres (e) 60 litres

10. What fraction of 2 days is 16 hours 40 minutes?

(a) $\frac{50}{81}$ (b) $\frac{1}{3}$ (c) $\frac{33}{50}$

(d) $\frac{25}{72}$ (e) $\frac{17}{48}$

11. A circle has a circumference of 132cm. What is the circumference of another circle whose radius is two-thirds of the first circle?

(a) 44cm (b) 88cm (c) 102cm

(d) 176cm (e) 198cm

12. Find the principal which will yield ₦15 000.00 as interest in 5 years at the rate of 3% per annum.

(a) ₦2 250.00 (b) ₦10 000.00 (c) ₦22 500.00

(d) ₦90 000.00 (e) ₦100 000.00

13. Kevin's mother was 32 years old when she gave birth to him. When was his mother born if Kevin is 15 years old in 2026?

(a) 1979 (b) 1994 (c) 2009

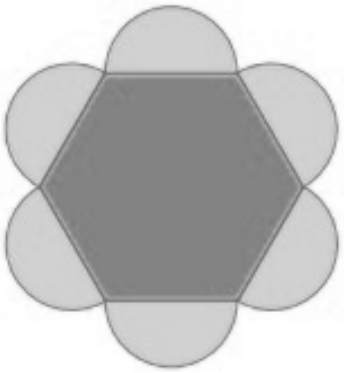
(d) 2043 (e) 2073

14. Alex is the 6^{th} tallest and 5^{th} shortest child in his family. If his family consists of his parents and the children, how many members are in his family?

(a) 9 (b) 10 (c) 11

(d) 12 (e) 13

15. The perimeter of the regular hexagon is 24cm and the sides of the hexagon are also the diameters of the light-grey surrounding semi-circles. What is the total area of the semi-circular regions?



(a) $8\pi\ cm^2$ (b) $10\pi\ cm^2$ (c) $12\pi\ cm^2$

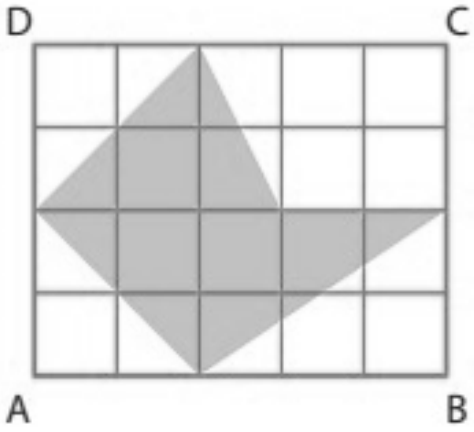
(d) $18\pi\ cm^2$ (e) $24\pi\ cm^2$

16. Find $x + 10$ if $0.2x + 3 = 5.6$.

(a) 3 (b) 8 (c) 13

(d) 18 (e) 23

17. In the figure below, ABCD is a rectangle divided into 20 equal squares with a side length of $1cm$. What is the area of the shaded region?



(a) 7 (b) 8 (c) 9

(d) 10 (e) 11

18. The sum of five consecutive positive integers is 30. What is the sum of the squares of the two largest numbers of the five positive integers?

(a) 61 (b) 85 (c) 113

(d) 169 (e) 225

19. The population of a village increased by 25% to 4.5 million. What was the population before the increase?

(a) 3.375 million (b) 3.6 million (c) 3.75 million

(d) 4 million (e) 5 million

20. A shop sells sweets where every three sweet wrappers can be exchanged for one more sweet. Jamal has enough money to buy only 29 sweets. What is the biggest number of sweets that he can get from the shop?

(a) 43 (b) 41 (c) 39

(d) 38 (e) 29