

# **MATHEMATICS TEST (AGE 10 - 12)**

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**DEPARTMENT OF EDUCATION AND CULTURE**

**BUREAU OF RESEARCH AND DEVELOPMENT IN EDUCATION AND CULTURE  
OFFICE OF RESEARCH AND DEVELOPMENT FOR TESTING SYSTEMS**

**a collaborative project with**

**THE DEMOGRAPHIC INSTITUTE, FACULTY OF ECONOMICS,  
UNIVERSITY OF INDONESIA**

**1996**

1. 
$$\begin{array}{r} 4,169 \\ 29,934 \\ \hline \end{array} +$$
  
 $\dots$

- A. 34,103
- B. 34,093
- C. 33,103
- D. 33,093

2.  $12,597 + n = 47,925$   
 $n = \dots$

- A. 34,428
- B. 35,428
- C. 35,328
- D. 36,328

3.  $4,516 \div 4 = \dots$

- A. 1,024
- B. 1,029
- C. 1,124
- D. 1,129

4.  $2 \text{ km} + 2 \text{ hm} + 20 \text{ dm} + 12.5 \text{ m} + 4 \text{ cm} = \dots \text{ cm.}$

- A. 22,454
- B. 22,354
- C. 24,229
- D. 241,254

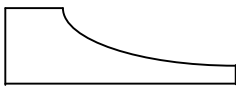
5.  $\frac{56}{84} = \dots$

- A.  $\frac{4}{7}$
- B.  $\frac{2}{3}$
- C.  $\frac{3}{4}$
- D.  $\frac{5}{6}$

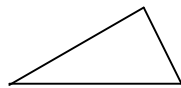
6.  $3.5 \text{ tonnes} + 2.5 \text{ decatonnes} + 105 \text{ kg} = \dots \text{ kg}$

- A. 3,855
- B. 3,805
- C. 3,755
- D. 3,705

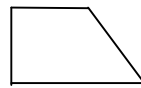
7.



I



II



III



IV

Which of the figures above is symmetric? ...

- A. I
- B. II
- C. III
- D. IV

8. Which one of these numbers can be divided by 3 and 5 ...

- A. 9
- B. 10
- C. 15
- D. 20

9.  $\frac{1}{3} - \frac{1}{6} = \dots$

- A.  $\frac{2}{3}$
- B.  $\frac{1}{3}$
- C.  $\frac{1}{6}$
- D.  $\frac{1}{9}$

10. Budi bought one dozen marbles, his father bought 2 dozen marbles and his mother bought a half dozen. What is Budi's total?

A. 30  
B. 36  
C. 42  
D. 48

11.  $105,064 \div 23 = \dots$

A. 4,556  
B. 4,558  
C. 4,566  
D. 4,568

12. A square has an area of  $2,025 \text{ cm}^2$ . What is the length of one side in cms?...

A. 25  
B. 35  
C. 45  
D. 55

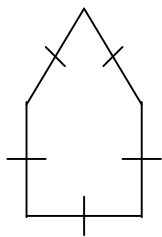
13. What is  $\frac{1}{7}$  in decimals ...

A. 0,142877  
B. 0,142857  
C. 0,142867  
D. 0,142947

14.  $(412 + 213) \div (243 - 118) = \dots$

A. 125  
B. 75  
C. 25  
D. 5

- 15.



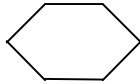
In the figure, each side is 12 cm. How far is it all the way around ...

A. 72  
B. 60  
C. 58  
D. 56

16.  $\frac{2}{3} \times 1\frac{5}{7} \div \frac{1}{7} = \dots$

- A.  $\frac{1}{8}$
- B.  $\frac{1}{3}$
- C. 3
- D. 8

17.



How many symmetries are in the picture here ...

- A. 6
- B. 4
- C. 3
- D. 2

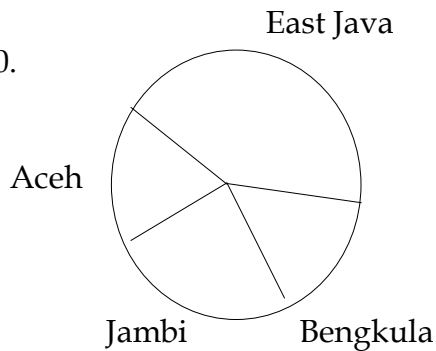
18.  $0.76 - 0.4 - 0.23 = \dots$

- A. 0.11
- B. 0.12
- C. 0.13
- D. 0.16

19.  $0.6 + 20\% - 0.2 - 10\% = \dots$

- A. 0.9
- B. 0.8
- C. 0.6
- D. 0.5

20.



The diagram shows population in provinces.  
Which province has the highest population...

- A. Aceh
- B. Bengkulu
- C. East Java
- D. Jambi

21. What is the primary factor for 2,520...
- A.  $2^2 \times 3^2 \times 5^2 \times 7$
  - B.  $2^3 \times 3^2 \times 5 \times 7$
  - C.  $2^2 \times 3 \times 5^2 \times 7$
  - D.  $2 \times 5 \times 7$
22. J, F and I were playing marbles. Each one had the following proportion of marbles 3 : 5 : 7. If J has 60 marbles, how much do F and I have?
- A. 100
  - B. 140
  - C. 200
  - D. 240
23. The distance between city A and city B on the map is 3.5 cm. If the scale of the map is 1 : 200,000, the real distance is ...
- A. 70 m
  - B. 700 m
  - C. 7,000 m
  - D. 70,000 m
24. A car was traveling at 60 km/hour. How much time would it take for the car to travel 160 km ...
- A. 2 hours 20 minutes
  - B. 2 hours 30 minutes
  - C. 2 hours 40 minutes
  - D. 2 hours 50 minutes
25. Which coordinates are appropriate ... if  $(x + y = 12)$
- A. (-5, -7)
  - B. (5, -7)
  - C. (-5, 7)
  - D. (5, 7)
26. Ali bought a motorcycle for Rp. 1,750,000.00. He wants to sell for a profit of 15%. His profit should be would be ...
- A. Rp 150,000.00
  - B. Rp 245,000.00
  - C. Rp 262,500.00
  - D. Rp 350,000.00

27. A cone has a base diameter of 54 cm. If the height is 100 cm, what is the volume?

- A. 76.302 cm<sup>3</sup>
- B. 114.453 cm<sup>3</sup>
- C. 152.604 cm<sup>3</sup>
- D. 228.906 cm<sup>3</sup>

28.  $\frac{2}{3} \div \frac{2}{7} = \dots$

- A.  $\frac{4}{21}$
- B.  $\frac{3}{7}$
- C.  $1\frac{1}{6}$
- D.  $2\frac{1}{3}$

29. A circular flower garden has a radius of 21 meters. At the center of the garden is a pond 7 meters from the edge of the garden.

The circumference of the pond is ... (Assume  $\pi$  is  $= \frac{22}{7}$ )

- A. 44 m
- B. 88 m
- C. 132 m
- D. 154 m

30. What is the average of the following numbers: 5 6 7 4 7 6 5 5 4 4 ...

- A. 6.3
- B. 6.2
- C. 5.3
- D. 5.2

## ANSWER KEY

1. A

2. C

3. D

4. D

5. B

6. A

7. D

8. C

9. C

10. C

11. D

12. C

13. B

14. D

15. B

16. D

17. C D?

18. C

19. D

20. C

21. B

22. D

23. B C?

24. C

25. D

26. C

27. A

28. D

29. B

30. C