

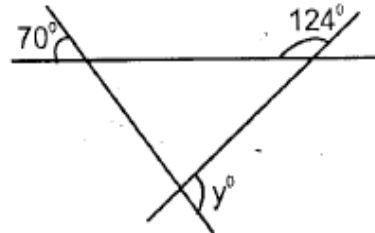
# STANDARD SIX MID TERM ONE EXAM 2018

## MATHEMATICS

Time: 2 hours

1. Which of the following numbers is eight million four hundred and eight thousand six hundred and twenty two in symbols?  
 A. 8408622      B. 8480622  
 C. 80408622    D. 8408620
2. What is the place value of digit 9 after working out:  $647293+949763$ ?  
 A. Ten thousands  
 B. 90000  
 C. Hundred of thousands  
 D. Thousands
3. Round off: 397624 to the nearest thousand.  
 A. 390000      B. 400000  
 C. 397000      D. 398000
4. What is the square of 36?  
 A. 6              B. 1296  
 C. 72             D. 18
5. What is the reciprocal of  $10\frac{3}{4}$ ?  
 A.  $\frac{4}{43}$             B.  $\frac{43}{4}$   
 C.  $\frac{4}{40}$             D.  $\frac{40}{4}$
6. What is the place value of digit 7 in the number 4.2756?  
 A. Tenths        B. Hundredths  
 C. Hundreds    D. Tens
7. What is  $\frac{2}{7}$  written as a decimal correct to 2 decimal places?  
 A. 0.28          B. 0.285  
 C. 0.29          D. 3.50

8. The area of a square plot is  $6\frac{1}{4}m^2$ .  
 What is the length of one of its sides?  
 A.  $2\frac{1}{4}m$           B.  $3\frac{1}{2}m$   
 C.  $2\frac{1}{2}m$           D.  $1\frac{1}{4}m$
9. A rectangular plot measures 600m by 300m. Calculate its area.  
 A. 900000m<sup>2</sup>    B. 180000m<sup>2</sup>  
 C. 1800000m<sup>2</sup>   D. 1800m<sup>2</sup>
10. What is the square root of 25?  
 A. 5                B. 625  
 C. 50              D.  $12\frac{1}{2}$
11. Calculate the size of angle marked y.



- A. 54°              B. 70°  
 C. 56°              D. 126°
12. Multiply:
 

Hrs	min	sec
8	24	48
x		8
- A. 67hrs 18min 24sec.  
 B. 64hrs 192min 384sec.  
 C. 65hr 95min 84sec.  
 D. 64hrs 36min 24sec.

13. A family uses 2-200ml packets of milk everyday. How many litres did the family use in the month of January year 2016?

- A. 12                      B. 12400  
C. 12000                D. 12.4

14. Which one of the following fractions will form a recurring decimal?

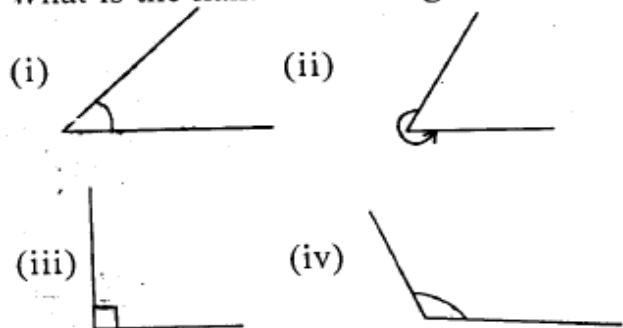
- A.  $\frac{1}{2}$                       B.  $\frac{3}{10}$   
C.  $\frac{3}{7}$                       D.  $\frac{4}{5}$

15. Simplify:

$$3(2a+4a+2b-b)$$

- A.  $18a + 3b$   
B.  $10a + b$   
C.  $6a + 12a+ba-3b$   
D.  $21ab$

16. What is the name of the angles below?



- (i)                      (ii)                      (iii)                      (iv)
- A. Acute, obtuse, right-angle, reflex.  
B. Reflex, obtuse, right-angle, acute.  
C. Acute, reflex, right-angle, obtuse.  
D. Actute , right-angle, reflex, obtuse.

17. Solve for the value of a in:-

$$2a + 10 = 12$$

- A.  $a = 2$                       B.  $a = 1$   
C.  $a = 11$                       D.  $2a = 22$

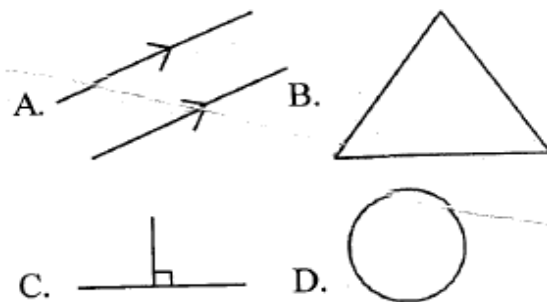
18. Which one of the following numbers is not divisible by 8?

- A. 88888                      B. 40000  
C. 36422                      D. 9720

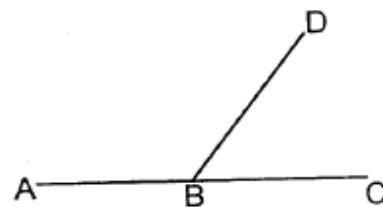
19. What is 0.45 written as a fraction in the simplest form?

- A.  $\frac{45}{100}$                       B.  $\frac{9}{20}$   
C.  $2\frac{1}{10}$                       D.  $2\frac{2}{9}$

20. Which one of the following diagrams is drawn using a ruler and a set square?



21. What is the size of the angle CBD below?



- A.  $55^\circ$                       B.  $60^\circ$   
C.  $120^\circ$                       D.  $130^\circ$

22. Work out:

$$\begin{array}{r} \underline{l} \quad \quad \underline{m} \\ 420 \quad 199 \\ \times \quad \quad 6 \\ \hline \end{array}$$

- A. 2520/ 1194ml  
B. 2521/ 194ml  
C. 2531/ 94ml  
D. 2520/ 94ml

23. When is the shadow shortest?

- A. 12.00am                      B. 7.00am  
C. 12.00pm                      D. 6.00pm

24. What is the sum of GCD and LCM of 24, 36 and 48?

- A. 12                      B. 147  
C. 144                      D. 156

25. What is the next number in the sequence below?  
125, 128, 133, 140, 149, \_\_\_\_\_  
A. 160                      B. 150  
C. 162                      D. 156

26. What is 44 written as a roman number?  
A. XLVI                      B. XLIV  
C. LXIV                      D. LXVI

27. What is  $10\frac{7}{8}$  written as an improper fraction?

- A.  $\frac{8}{87}$                       B.  $\frac{107}{8}$   
C.  $\frac{87}{8}$                       D.  $\frac{8}{107}$

28. Work out:  $0.083 \times 12 =$   
A. 0.996                      B. 9.96  
C. 996                      D. 0.0996

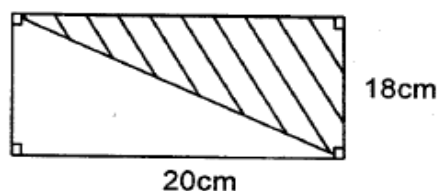
29. Divide:  $8160 \div 20 =$   
A. 48                      B. 4008  
C. 480                      D. 408

30. In a school, 1488 pupils were boys and there were twice as many girls as boys. How many pupils were there altogether?  
A. 4464                      B. 1488  
C. 2976                      D. 2232

31. Work out:  $2\frac{1}{4} \times 2\frac{2}{3} \times 3\frac{3}{4} =$   
A. 6                      B. 10  
C.  $\frac{2}{45}$                       D.  $22\frac{1}{2}$

32. What is 72 written as a product of its prime factors?  
A.  $2 \times 2 \times 2 \times 3$                       B.  $8 \times 9$   
C.  $2 \times 2 \times 2 \times 3 \times 3$                       D.  $2 \times 2 \times 3 \times 6$

33. Calculate the area of the shaded part in the figure below.



- A.  $360\text{cm}^2$                       B.  $76\text{cm}^2$   
C.  $180\text{cm}^2$                       D.  $38\text{cm}^2$

34. Work out:

$$5 \overline{) 18 \text{ kg } 15 \text{ g}}$$

- A. 3kg 3g                      B. 3kg 63g  
C. 3kg 603g                      D. 3kg 630g

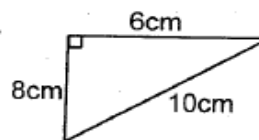
35. Angela bought the following items from a shop;

- 2kg of sugar @ sh.100.
- $1\frac{1}{2}$ kg of rice each at sh.50.
- 3bars of soap each sh.80.
- 2packets of milk each at sh.50.

If she paid using a one thousand shilling note, what balance did she receive?

- A. sh.385                      B. sh.485  
C. sh.515                      D. sh.615

36. Calculate the area of the triangle below.



- A.  $48\text{cm}^2$                       B.  $40\text{cm}^2$   
C.  $80\text{cm}^2$                       D.  $24\text{cm}^2$

37. What is the size of the angle marked q?



- A.  $20^\circ$                       B.  $22^\circ$   
C.  $158^\circ$                       D.  $70^\circ$

38. Using your ruler and protractor, draw triangle PQR in which PQ = 6cm, angle PQR =  $60^\circ$  and angle QPR =  $60^\circ$ . What is the length of line PR?

- A. 5.3cm                      B. 7.5cm  
C. 6cm                      D. 6.7cm

39. A line 6cm was drawn to represent a river using the scale 1cm represents 4000m. What was the actual length of the river in kilometres?

- A. 24000km                      B. 24km  
C. 240km                      D. 2400km

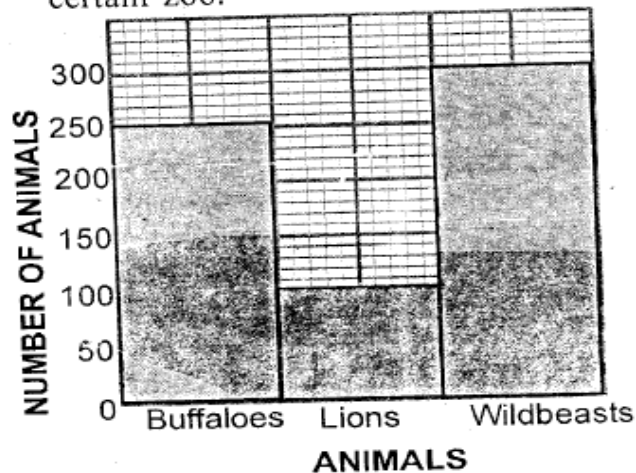
40. Below are properties of a certain figure.

- (i) All sides are equal.
- (ii) All angles are equal.
- (iii) Each angle is  $90^\circ$ .
- (iv) Sum of all interior angles is  $360^\circ$ .

The figure described is a:-

- A. square
- B. rectangle
- C. triangle
- D. circle.

41. Below is a graph showing animals in a certain zoo.



How many more wildbeasts and buffaloes than lions were there?

- A. 550
- B. 450
- C. 300
- D. 200

42. What is 40% of 200 cows?

- A. 240
- B. 8
- C. 160
- D. 80

43. How many  $\frac{1}{4}$  kg packets can be obtained from 44kg?

- A. 11
- B. 88
- C. 22
- D. 176

44. Work out:  $24 \times 3\frac{1}{4} =$

- A. 6
- B. 13
- C. 312
- D. 78

45. Arrange the fractions below from the

largest to the smallest;  $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}, \frac{1}{7}$

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

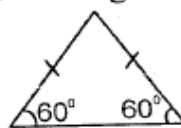
46. Work out:  $1\frac{1}{2} \div 2\frac{1}{4} =$

- A.  $\frac{3}{2}$
- B.  $\frac{2}{3}$
- C.  $1\frac{1}{2}$
- D.  $3\frac{3}{8}$

47. What is 60% written as a fraction in the simplest form?

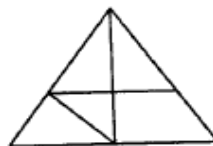
- A.  $\frac{3}{5}$
- B.  $\frac{2}{3}$
- C.  $1\frac{1}{2}$
- D.  $3\frac{3}{8}$

48. Name the triangle below.



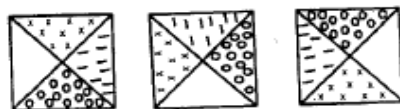
- A. Isosceles
- B. Equilateral
- C. Right angled
- D. Scalene

49. How many triangles are in the figure below?



- A. 5
- B. 8
- C. 11
- D. 9

50. What is the next pattern?



- A.
- B.
- C.
- D.