

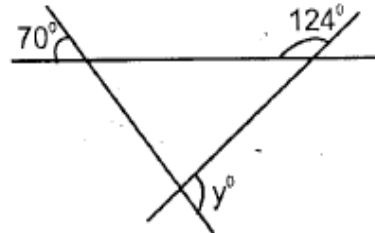
# STANDARD SIX MID TERM ONE EXAM 2018

## MATHEMATICS

Time: 2 hours

- 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
- What is the place value of digit 9 after working out:  $647293+949763$ ?  
A. Ten thousands  
B. 90000  
C. Hundred of thousands  
D. Thousands
- Round off: 397624 to the nearest thousand.  
A. 390000      B. 400000  
C. 397000      D. 398000
- What is the square of 36?  
A. 6              B. 1296  
C. 72             D. 18
- What is the reciprocal of  $10\frac{3}{4}$ ?  
A.  $\frac{4}{43}$               B.  $\frac{43}{4}$   
C.  $\frac{4}{40}$               D.  $\frac{40}{4}$
- What is the place value of digit 7 in the number 4.2756?  
A. Tenths          B. Hundredths  
C. Hundreds      D. Tens
- 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

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



- A.  $54^\circ$                   B.  $70^\circ$   
C.  $56^\circ$                   D.  $126^\circ$
- 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?

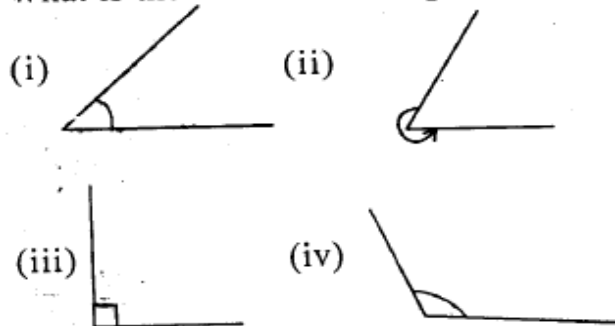
- A.  $\frac{1}{2}$                       B.  $\frac{3}{10}$   
C.  $\frac{3}{7}$                       D.  $\frac{4}{5}$

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.  $2a = 22$

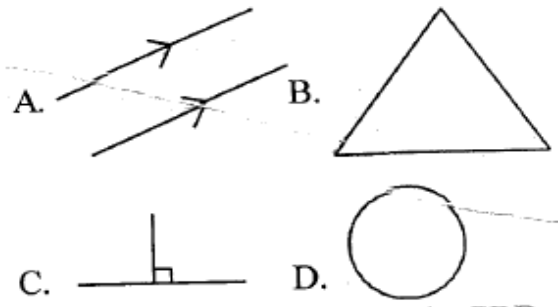
18. Which one of the following numbers is not divisible by 8?

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

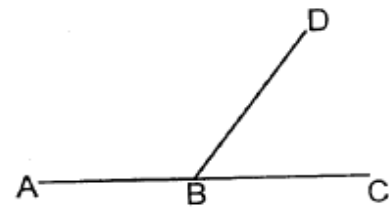
19. What is 0.45 written as a fraction in the simplest form?

- 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:

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

- 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

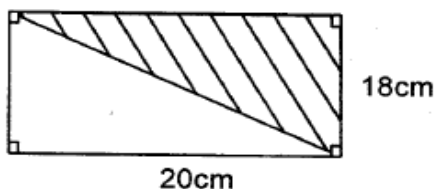
29. Divide:  $8160 \div 20 =$   
A. 48                      B. 4008  
C. 480                      D. 408

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

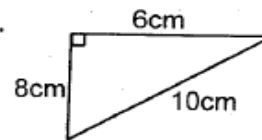
35. Angela bought the following items from a shop;

- 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?

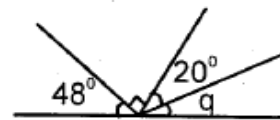
- A. sh.385                      B. sh.485  
C. sh.515                      D. sh.615

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

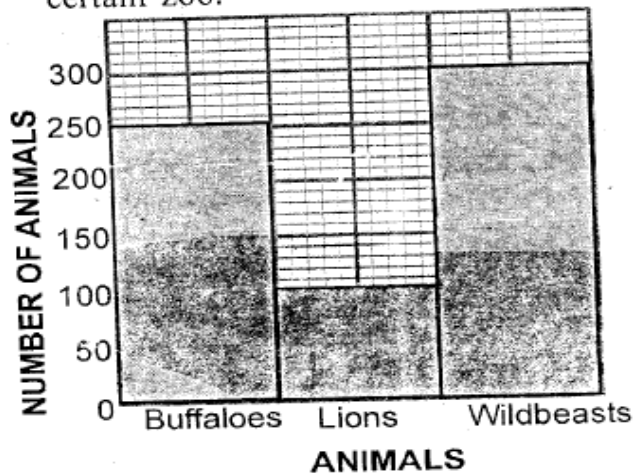
40. Below are properties of a certain figure.

- (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.  $\frac{1}{4}, \frac{1}{3}, \frac{1}{7}, \frac{1}{2}$

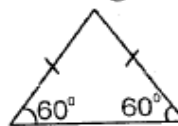
46. Work out:  $1\frac{1}{2} \div 2\frac{1}{4} =$

- 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?

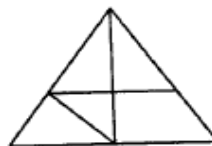
- A.  $\frac{3}{5}$
- B.  $\frac{2}{3}$
- C.  $1\frac{1}{2}$
- D.  $3\frac{3}{8}$

48. Name the triangle below.



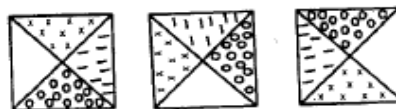
- A. Isosceles
- B. Equilateral
- C. Right angled
- D. Scalene

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.