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# STANDARD SIX MID-TERM 3 EXAMS

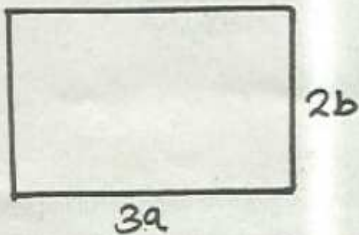
## 2016 MATHEMATICS

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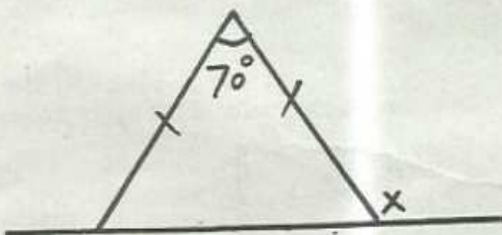
# MATHEMATICS

TIME: 2 HRS

- What is nine hundred thousand six hundred and six in symbols?  
 A. 600 906  
 B. 900606  
 C. 906 006  
 D. 960 600
- What is the total value of digit 6 in the number 4.2567?  
 A. Thousandths  
 B. 0.006  
 C. 0.0006  
 D. Hundredths
- Convert  $\frac{3}{4}$  into percentage  
 A. 34%  
 B. 25%  
 C. 75%  
 D. 65%
- What is the perimeter of the rectangle below?

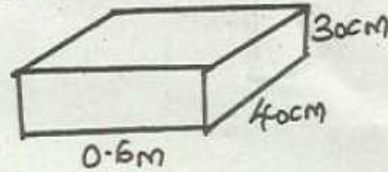


- A.  $3a + 2b$   
 B.  $6a + 4b$   
 C.  $3b + 2a$   
 D.  $6b + 4a$
- Calculate the size of angle marked x



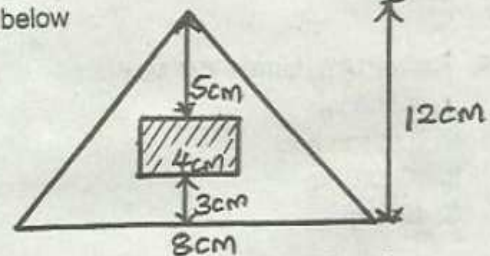
- A.  $110^\circ$   
 B.  $55^\circ$   
 C.  $125^\circ$   
 D.  $70^\circ$

- Calculate the volume of water in the tank in cubic centimetres?



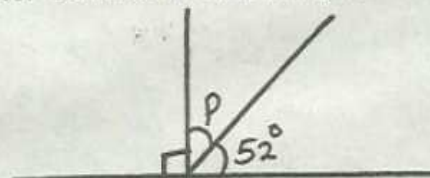
- A.  $72000 \text{ cm}^3$   
 B.  $7200 \text{ cm}^3$   
 C.  $0.072 \text{ cm}^3$   
 D.  $720 \text{ cm}^3$
- A meeting started at 10.35 am and took four hours. At what time did the meeting end?  
 A. 6.35 pm  
 B. 4.25 hrs  
 C. 2.25 pm  
 D. 6.35 am
  - The perimeter of a square is  $36 \text{ cm}^2$ . Calculate the sum of its two sides  
 A. 9 cm  
 B. 18 cm  
 C. 81 cm  
 D. 27 cm

- Calculate the area of unshaded part in the figure below



- A.  $16 \text{ cm}^2$   
 B.  $48 \text{ cm}^2$   
 C.  $32 \text{ cm}^2$   
 D.  $80 \text{ cm}^2$

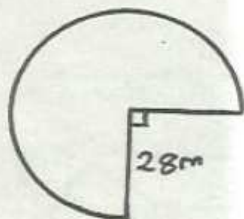
- Calculate the size in angle p



- A.  $142^\circ$   
 B.  $180^\circ$   
 C.  $38^\circ$   
 D.  $48^\circ$

STD 6 MATHS

11. John fenced the following land using four strands of a wire. What length of wire did he use?



- A. 132 m  
B. 188m  
C. 528 m  
D. 752 m
12. Calculate  $2.28 \times 2.4 =$   
A. 5.472  
B. 54.72  
C. 547.2  
D. 5472
13. Charity bought a dress at Sh 500. She later sold it at Sh 450. What percentage profit did she get?  
A. 10%  
B.  $11 \frac{1}{5}\%$   
C. 90%  
D. 50%
14. Convert  $4 \frac{1}{5}$  tonnes into kilograms  
A. 4 800 kg  
B. 4 800 tonnes  
C. 12 000 kg  
D. 480 kg
15. Mary bought 4720 ml of milk. She used two litres of it. How much milk was she left with in litres?  
A. 2720L  
B. 2.720L  
C. 6.720L  
D. 5.720L
16. Convert 7 litres 9 decilitres into millilitres  
A. 7900 ml  
B. 79 000ml  
C. 790 ml  
D. 79ml

17. Work out :-  $3 \frac{1}{2} \times 1 \frac{1}{8} =$

- A.  $3 \frac{1}{16}$   
B.  $3 \frac{15}{16}$   
C.  $4 \frac{15}{16}$   
D.  $3 \frac{1}{9}$

18. Work out:-

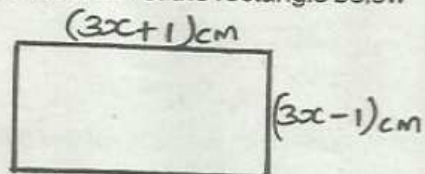
$$8 \frac{1}{4} \div 5 \frac{1}{2} =$$

- A.  $40 \frac{1}{8}$   
B.  $1 \frac{1}{2}$   
C.  $\frac{3}{2}$   
D.  $45 \frac{3}{8}$

19. Solve  $5x - 10 + 2x = 4$

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

20. Calculate the width of the rectangle below



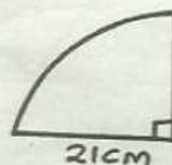
- A. 13 cm  
B. 4 cm  
C. 8 cm  
D. 11 cm

21. Neliama was given 4 twenty shilling coins

3 - one hundred shilling notes and 1 - two hundred shillings notes. She changed them into ten shillings coins. How many coins did she get?

- A. 58  
B. 580  
C. 68  
D. 680

22. Calculate the perimeter of the figure below



- A. 33 cm  
B. 42 cm  
C. 132 cm  
D. 75 cm



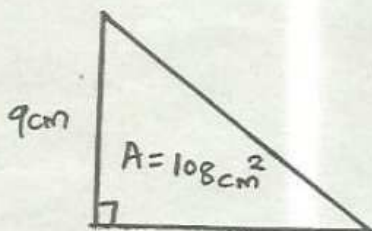
23. A loaded lorry weighs 3.4 tonnes. After off loading the empty lorry weighed 2 tonnes. What was the weight of the load in kgs?

- A. 5.4
- B. 5400
- C. 1.4
- D. 1400

24. What is the product of the L.C.M of 5, 8 and 6 and H.C.F of 24, 18 and 12?

- A. 240
- B. 6
- C. 40
- D. 1440

25. Calculate the base of the figure below if the area is  $108 \text{ cm}^2$ ?



- A. 12 cm
- B. 22 cm
- C. 24 cm
- D. 48 cm

26. The area of a rectangle is  $72 \text{ cm}^2$ . Its length is 9 cm. Calculate its perimeter?

- A. 34 cm
- B. 17 cm
- C. 68 cm
- D. 8 cm

27. A bus took 3 hours to travel from Makindu to Embu. If the bus reached Embu at 2 am. At what time did it depart from Makindu?

- A. 11.00 pm
- B. 12.00 pm
- C. 10.00 pm
- D. 9.00 pm

28. Which statement is true about a cube and cuboid?

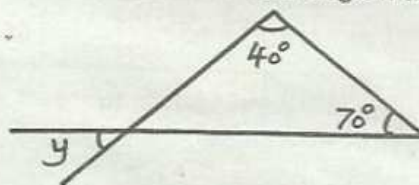
- A. Their faces are square in shape
- B. They have equal number of faces, edges and vertices when are both closed
- C. Their faces are equal if one is open.
- D. All the faces are not equal in both.

29. Calculate

$$64 \sqrt{18662}$$

- A. 31
- B. 301
- C. 3001
- D. 310

30. Calculate the value of angle marked y



- A.  $110^\circ$
- B.  $40^\circ$
- C.  $70^\circ$
- D.  $80^\circ$

31. Calculate  $\frac{9}{12} + \frac{4}{15} - \frac{6}{30} =$

- A.  $1\frac{1}{60}$
- B.  $\frac{49}{60}$
- C.  $\frac{1}{15}$
- D.  $\frac{11}{20}$

32. Which is the next number in the pattern below 81, 100, 121, 144, \_\_\_\_\_

- A. 289
- B. 225
- C. 169
- D. 369

33. Kelvin woke up at 12.40 pm. What time was this in 24 hour clock system?

- A. 1240 hrs
- B. 12.40 hrs
- C. 2440 hrs
- D. 0040 hrs

34. In ACK Primary school music festivals started at 10.30 am and ended at 4.40 pm. How long did it take?

- A. 6 hr 10 min
- B. 5 hrs 50 min
- C. 5 hrs 10 min
- D. 6 hrs 10 min

35. Three alarms clock rings as follows : One after 5 mins another after 10 mins and the other after 15 mins. If they rang at the same time 10. am, at what time had they rang together before?

- A. 10.30 am
- B. 10.30 pm
- C. 9.30 am
- D. 9.30 pm

36. Chebet ran for 3 hours to school. The distance from home to school is 42 km. What was his speed in km/h?

- A. 14 km/h                      B. 126km/h  
C. 39 km/h                      D. 45 km/hr

37. Nancy's results were as follows in the end term exam

SUBJECTS	ENG	KISW	MATHS	SCIE	S/SRE
MARKS %	75	70	96	—	84

What was her marks in social studies if she got a total of 400 marks?

- A. 85 %                      B. 75 %  
C. 325 %                      D. 95 %

38. How many more marks did she improve with if she had 390 marks in the previous exam?

- A. 10                      B. 95  
C. 75                      D. 65

39. Round off 96 and 58 to the nearest 100 and them multiply.

- A. 10 000                      B. 4500  
C. 6000                      D. 5000

40. Express 0.75 as a fraction to the simplest form

- A.  $\frac{75}{100}$                       B.  $\frac{15}{100}$   
C.  $\frac{15}{20}$                       D.  $\frac{3}{4}$

41. What is the value of  $3.64 + 14$

- A. 26                      B. 2.6  
C. 260                      D. 0.26

42. Express 8.9374 correct to two decimal places.

- A. 8.93                      B. 8.90  
C. 8.94                      D. 8.92

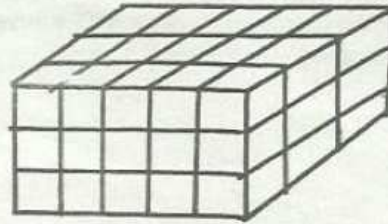
43. The height of five girls are 132 cm, 130 cm, 137 cm, 141 cm and 140 cm. What is their average height?

- A. 680 cm                      B. 136 cm  
C. 126 cm                      D. 146 cm

44. Work out  $4.34 + 2.54 - 0.64 + 2.89 =$

- A. 6.88                      B. 6.24  
C. 9.13                      D. 6.59

45. How many cubes are in the box below?



- A. 45                      B. 55  
C. 85                      D. 65

46. Construct triangle ABC such  $AC = BA = 6$  cm and angle  $CAB = 60^\circ$ . Measure line BC?

- A. 5 cm                      B. 8 cm  
C. 7 cm                      D. 6 cm

47. What is the square root of 576?

- A. 24                      B. 26  
C. 25                      D. 28

48. Arrange  $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}, \frac{1}{6}$  in ascending order

A.  $\frac{1}{8}, \frac{1}{6}, \frac{1}{2}, \frac{1}{4}$

B.  $\frac{1}{8}, \frac{1}{6}, \frac{1}{4}, \frac{1}{2}$

C.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{6}, \frac{1}{8}$

D.  $\frac{1}{2}, \frac{1}{2}, \frac{1}{6}, \frac{1}{8}$

49. Work out  $5 \overline{) 418m \ 95 \text{ cm}}$

- A. 83 m 79 cm  
B. 8379 m  
C. 8m 79cm  
D. 837m 9 cm

50. Musa bought the following items from a shop

*2 kg sugar at sh 90 per kilo*

*3 kg cooking fat @ Sh 123 per kilo*

*2 loaves of bread for Sh 60*

*1 bar soap for Sh 65*

How much balance did he get if he paid the bill using Sh 1000 note?

- A. Sh 674  
B. Sh 574  
C. Sh 326  
D. Sh 336