MUMIAS / BUNGOMA JOINT SCHOOLS
STD 8 TERM 1– 2020

| HOW TO USE THE ANSWER SHEET | MATHEMATICS | Time: 2 Hrs |

HOW TO USE THE ANSWER SHEET
1. Use only an ordinary pencil.
2. Make sure that you have written on the answer sheet:-
   (i) YOUR NAME   (iii) NAME OF YOUR SCHOOL
3. For each question show the correct answer by drawing a line in the brackets in which the letter you have chosen is written.

1. Which number is four million four hundred and four thousand four hundred and four in figures?
   A. 4044404   B. 4044404
   C. 4404404   D. 4404440

2. What is the smallest number which can be subtracted from 35765 to make it divisible by 11?
   A. 7   B. 6   C. 11   D. 4

3. The price of phone was increased by 40% and become 16800. What was the price before increase?
   A. Sh. 4800   B. Sh. 12000
   C. Sh. 360   D. Sh. 13200

4. What is the value of digit 8 after working out 8.445 ÷50?
   A. 0.1689   B. 0.169
   C. $^8/_{1000}$ D. Thousands

5. Evaluate $\dfrac{2.88 \times 3.38}{1.3 \times 0.12}$
   A. 62.4   B. 0.624   C. 6.24   D. 0.0624

6. A school has a total number of 600 pupils. Each pupil was given two 2 dl packets of milk every week. How many liters were consumed in three weeks?
   A. 72000   B. 7200   C. 720   D. 72
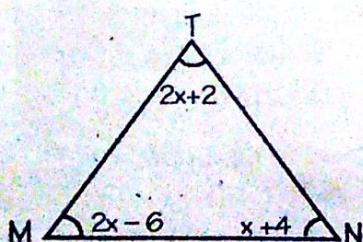
7. Simplify 3(4x – 5y) +4 (2x + 2y)
   A. 20x+ 7y   B. 20x – 7y
   C. 20x + 22y   D. 20x -22y

8. Work out 4.2 x 0.2 – 0.02 + 0.4 ÷0.02?
   A. 20.82   B. 2.82   C. 208.2   D. 20.86

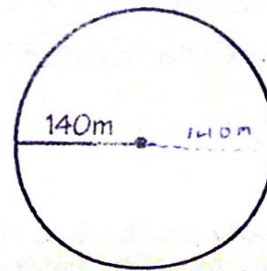9. Calculate the value of angle MNT in the figure below

   A. 36⁰
   B. 40⁰
   C. 66⁰
   D. 74⁰

10. How many circular tins of radius 7cm and a height of 20cm can be packed to fill a carton measuring 168cm long 112cm wide and 80cm high?
    A. 192   B. 384   C. 96   D. 768

11. Mr. Kamau had a piece of land in the shape below. Which he wanted to fence using two strands of wire. What length of wire did he use?

    A. 880m
    B. 1760m
    C. 7040 cm
    D. 3250cm

12. An empty pickup weighs 1.25 tonnes. It was then loaded with twelve 90kg bags of wheat. What was the mass of the loaded pick up in kg?
    A. 1250kg   B. 1080kg
    C. 3330kg   D. 2330kg

13. What is the value of ½ + ¼ - ¼ ÷¹/₂
    A. ¹/₈   B. ½   C. ²/₃   D. ¼

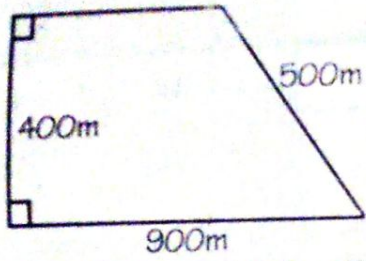14. What is largest number possible that can be divided by 25, 70 and 75 without a remainder?
    A. 5   B. 15   C. 25   D. 1050

15. The ratio of goats for sheep in Hadija's farm was 4:3. She sold ¾ of his goats to the slaughter house. If she sold 90 goats, find the number of sheep in has farm?
    A. 90   B. 80   C. 120   D. 160

16. Calculate the area of the figure below in ares

A. 30000
B. 3000
C. 300
D. 30

17. Akwabi was sent to buy the following items
    - 500g of tea leaves @ sh. 84 per kg
    - 2kg of sugar @ sh. 120
    - 5 bars of soap for Sh. 625
    - 3 boxes matches @ sh. 2 per box

He paid using two Sh. 500 note. How much balance did he get?

A. Sh. 41   B. Sh. 45
C. Sh. 83   D. Sh. 87

18. The bus fare from Mumias to Nakuru in creased in the ratio 4:5. If the new fare is sh. 750. What was the amount of fare charged before increase?

A. Sh. 500   B. Sh. 800
C. Sh. 600   D. Sh. 900

19. Mr. Mango is 43 years old. the wife is 31 years old. After how many years will their total be 133 years if they have a son who is 5 years old?

A. 54   B. 74   C. 18   D. 36

20. Mariam deposited sh. 12000 in a bank that paid Simple interest at the rate of 12% per annum. for two years. How much interest did her money earn?

A. Sh. 13440   B. Sh. 14880
C. Sh. 2880   D. Sh. 1440

21. Njukuna bought a television for sh. 18000 after getting 10 % discount. How much would he have paid if he was given 25% discount ?

A. Sh. 14500   B. Sh. 13500
C. Sh. 5000   D. Sh. 15000

22. A certain quadrilateral has the following characteristics
    - (i) All sides are equal
    - (ii) Opposite angles are equal
    - (iii) Has two pairs of parallel sides
    - (iv) Diagonals are not equal and bisect at right angles

The quadrilaterals described above is a ____

A. Rhombus   B. Parallelogram
C. Square   D. Rectangle

23. A motorist travelling at 10m/s took 6 ½ hours from Sabatia to Bungoma. How far is Sabatia to Bungoma ?
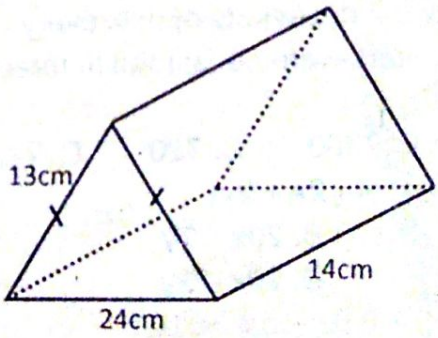
A. 65km   B. 234km
C. 216km   D. 180km

24. The table below shows the charges on money order for sending money

Value of order sh	Ordina.	Express
Up to 500	42.00	77.00
501-1000	114.00	146.00
1001-3000	174.00	203.00
3001-5000	209.00	237.00
5001- 10000	295.00	319.00
10001-20000	440.00	520.00

Maasai sent two money order of Sh 6750 and sh.10200 using ordinary money order and sh. 15500 using express money order. How much did he pay at the post office?

A. Sh. 1255   B. Sh. 32450
C. Sh. 33705   D. Sh. 33625

25. Calculate the volume of the figure below

A. 1680cm³
B. 840cm³
C. 820cm³
D. 758cm³

26. A section of a road is drawn to scale 1:300 000. What is the actual length in km of a road whose drawing length is 5cm

A. 1: 5km   B. 15km
C. 150km   D. 0.15km

27. Which of the following is the next number in the sequence 4,9,25,49____

A. 81   B. 64   C. 169   D. 121

28. The mean mass of 8 standard eight boys is 53kg. if the mass of the first six boys is 56kg, 57kg, 45kg, 49kg, 50kg and 57kg. the last two boys weighs the same. What is the mass of each of them?
   A. 55kg   B. 56kg
   C. 112kg   D. 57kg

29. What is half the value of
   $2/3$ of ($1/3 - 1/5$) $\div 2/9$?.
   A. $2/5$ B. $1/5$ C. $3/5$ D. $4/5$

30. A meeting was attended by men, women and children. The fraction of children was ¾ while $1/5$ of the remainder were men and the rest were women. If there were 1400 more children than men how many women and children attended the meeting?
   A. 1500   B. 1600
   C. 100   D. 1900

31. A mass of ice had a temperature of -56⁰c. it was heated until the water boiled. What was the change in the temperature?
   A.156⁰C   B. 44⁰C
   C. 56⁰C   Dd. 54⁰C

32. Eighteen men can complete a piece of work in 20 days. How many more men are required to finish the same work in 15 days?
   A. 24   B. 9   C. 6   D. 12

33. Construct a triangle ABC that line AB=BC=AC=7cm. draw a circle touching the points ABC. What is the radius ?
   A. 7cm   B. 4cm   C. 1.9cm   D. 7.8 cm

34. A cylinder tank has a capacity of 12.32 litres. Calculate its height if it has a diameter of 28cm
   A. 10cm   B. 20cm   C. 30cm   D. 40cm

35. Which of the following measurements will be used to form a right angled triangle?
   A. 0.3, 0.4, 0.05
   B. 0.8, 1.5, 1.7
   C. 6,8,1.0
   D. 0.5, 0.12, 0.13

36. Winny harvested 450 bags of maize in 2019. This was 10% less than what she harvested 2018. What was the total number of bags harvested in the two years

   A. 950   B. 900
   C. 1000   D. 850

37. What is the value of:
   $$\frac{2p(m-2)^2}{T+1}$$
   Where m=5, t=m +3 and p = 2m +t
   A. 12   B. 24   C. 144   D. 36

38. Stella bought a sofa set on hire purchase. She paid a deposit of sh. 3000 and the rest in 12 equal monthly instalments. If in total she paid sh. 21000, how much was each monthly installments
   A. Sh. 1500   B. Sh. 1800
   C. Sh. 18000   D. Sh. 1200

39. Which of the following expression is correct?
   A. 3/7 < 0.41   B. 0.05 <1/5
   C. ¾< 0.75   D. $2/5$ >40%

40. 15th February 2012 was on Thursday. What day was it 15TH April the same year?
   A. Sunday   B. Monday
   C. Tuesday   D. Saturday

41. What is the value of q in $3/5$ (10q -5) =7 +q
   A. 2   B. 1 $3/5$ C. 3   D. $4/5$

42. The table shows Bus fare from town A to G

A						
25	B					
70	50	C				
85	65	30	D			
180	120	60	30	E		
200	150	120	65	30	F	
250	200	160	120	100	70	G

How much does a man and his wife pay to travel from B to F through D.
   A. 130   B. 150   C. 260   D. 300

43. A train left Kisumu at 10:00am for Nakuru a distance of 300km. What was its speed if it arrived in Nakuru at 3:00pm the same day?
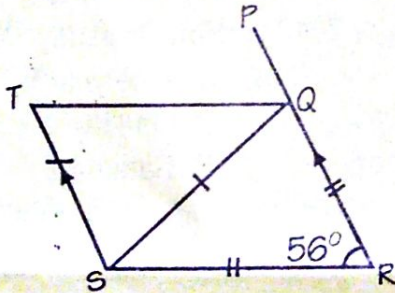   A. 60km/h   B. 42 6/7 km/h
   C. 30km/h   D. 50km/h

44. A saleslady earns a basic salary of Sh. 23500. She is also paid 5% commission on all the sales she make. In one month she was paid a total of Sh. 36000. What was the value of the sales that month?

A. Sh. 550000   B. Sh. 36000
C. Sh. 125000   D. Sh. 250000

45. Which of the following is the correct order of arranging fractions from smalled to largest
$\frac{7}{9}, \frac{3}{8}, \frac{5}{7}, \frac{9}{11}$

A. $\frac{9}{11}, \frac{7}{9}, \frac{5}{7}, \frac{3}{8}$ B. $\frac{5}{7}, \frac{3}{8}, \frac{7}{9}, \frac{9}{11}$
C. $\frac{3}{8}, \frac{7}{9}, \frac{9}{11}, \frac{5}{7}$ D. $\frac{3}{8}, \frac{5}{7}, \frac{7}{9}, \frac{9}{11}$
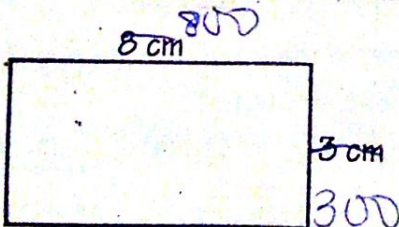
46. The figure below shows two triangles QSR and QST. Line QS =ST, RQ=RS while angle QRS = 56^0. PQR is a straight line while PR is parallel to TS. Calculate the size of angle TQS.

A. 62^0
B. 59^0
C. 124^0
D. 56^0

47. What is the surface area of a pipe whose diameter is 14cm and a length of 50m. Give your answer in m²
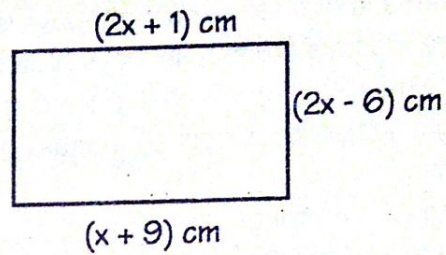
A. 220000m²   B. 220m²
C. 22000m²   D. 22m²

48. The figure below shows Mukhwana's piece of land drawn to the scale 1:50,000. What is the actual area of the land in hectares?

A. 6000000
B. 60000
C. 600
D. 60

49. What is the product of edges, faces and vertices of a triangular prism?

A. 270   B. 20   C. 576   D. 26

50. Find the area of the figure below

A. 54cm²
B. 289cm²
C. 64cm²
D. 170cm²