



# RIISING STAR EXAMINATION SERIES STANDARD SIX

YEAR 2021

## MATHEMATICS

### HOW TO USE THE ANSWER SHEET

Time: 2 Hours

- Use only an ordinary pencil.
- Make sure that you have written on the answer sheet:-  
(i) Your Name (ii) Name of your School
- For each question, show the correct answer by drawing a line in the brackets in which the letter you have chosen is written.

1. Write the following in symbols:

Five million seven thousand and thirty six

- A. 5070306                      B. 5700036  
C. 507036                        D. 5007036

2. What is the place value of digit 9 in 1493007?

- A. Millions  
B. Thousands  
C. Tens of thousands  
D. Hundreds of thousands

3. Add:  $2913 + 4720 + 40 + 6$

- A. 7679                              B. 11639  
C. 6679                              D. 71633

4. Round off 37638 to the nearest thousand

- A. 37000  
B. 38000  
C. 40000  
D. 38600

5. What is the GCD of 30, 45, 60?

- A. 180                                B. 5  
C. 15                                  D. 30

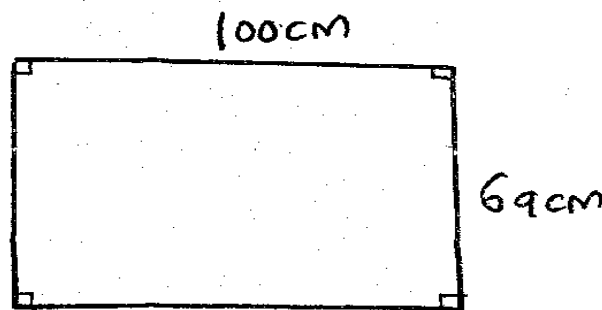
6. Work out the following  $\sqrt{324}$

- A. 18                                  B. 22  
C. 17                                  D. 12

7. In a book there are 510 pages, each page has 250 words. How many words are there in the book?

- A. 760  
B. 105700  
C. 260  
D. 127500

8. Find the perimeter of the figure below.



- A. 338cm                              B. 676cm  
C. 104cm                              D. 52cm

9. Write the next number in the pattern below.

4, 9, 16, 25, 36, \_\_\_\_\_

- A. 41                      B. 49                      C. 47                      D. 45

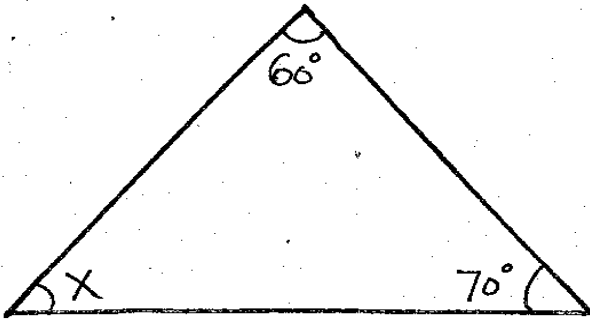
10. Work out:  $5\frac{1}{3} + 3\frac{2}{27} =$

- A.  $5\frac{4}{9}$                       B.  $5\frac{2}{9}$                       C.  $12\frac{1}{27}$                       D.  $17\frac{1}{27}$

11. Which of the following numbers is divisible by 8?

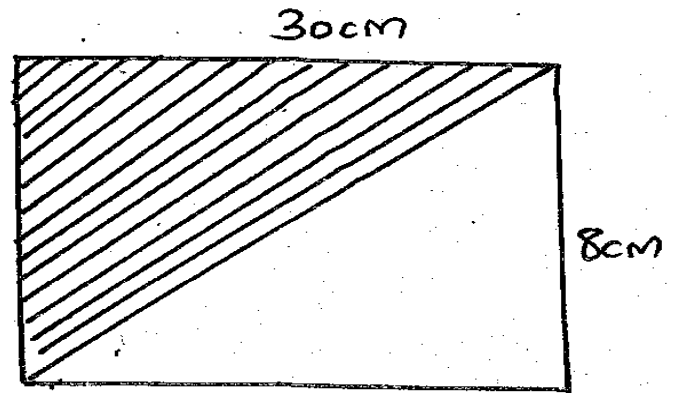
- A. 1213                                B. 65124  
C. 54048                                D. 83708

12. Calculate the measure of angle X.



- A.  $50^\circ$                       B.  $100^\circ$   
C.  $130^\circ$                       D.  $65^\circ$
13. Divide 30 litres 198ml by 6  
A. 5 l 43ml                      B. 6 l 30 ml  
C. 5 l 33ml                      D. 10 l 48ml
14.  $3x + 8 = 20$ . Find the value of x.  
A. 4                                  B. 12  
C. 10                                D. 20
15. On Saturday afternoon, Nyakairu walked along the road for  $4\frac{1}{2}$  hours. If she covered  $1\frac{1}{3}$  km in every hour, what distance did she cover altogether?  
A.  $4\frac{1}{2}$  km                      B. 9 km  
C. 12 km                            D. 6 km
16. What is  $\frac{1}{8}$  of 72?  
A. 12                                B. 8  
C. 9                                 D. 7
17. 840 metres of wire is required to fence a rectangular plot. The plot is 180m wide. What is its length?  
A. 180m                          B. 24m  
C. 660m                         D. 240m
18. On a map the scale used is 1cm rep 20m. What is the real measurement if the drawing measurement is 10.5cm?  
A. 21cm                          B. 210m  
C. 210cm                        D. 110cm

19. Find the area of the shaded part.

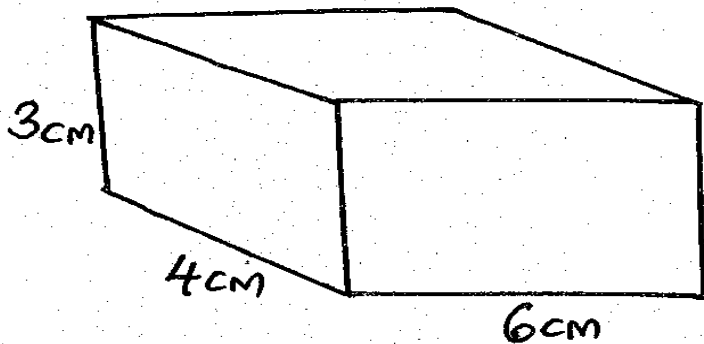


- A.  $240\text{cm}^2$                       B.  $120\text{cm}^2$   
C.  $480\text{cm}^2$                       D.  $60\text{cm}^2$
20. Remove the brackets and simplify.  
 $2(a + b) + 4(2a + 2b)$   
A.  $6a + 6b$                       B.  $2a + 6b$   
C.  $4a + 7b$                       D.  $10a + 10b$
21. Which fraction is equivalent to  $\frac{3}{4}$ ?  
A.  $1\frac{1}{2}$                       B.  $\frac{6}{8}$                       C.  $\frac{3}{6}$                       D.  $\frac{4}{3}$
22. Find the value of the missing letter Z.
- |   |   |   |
|---|---|---|
| 8 | 1 | 6 |
| 3 | 5 | 7 |
| 4 | Z | 2 |
- A. 9                      B. 8                      C. 4                      D. 6
23. Work out the following:  $21745 \div 67$   
A. 324 rem 3007                      B. 324 rem 37  
C. 3024 rem 37                      D. 324 rem 307
24. Odera is 0.75 m shorter than Ogela. If Odera is 1.50m tall, how tall is Ogelo?  
A. 0.75m                          B. 2.25m  
C. 1.25m                          D. 3.75m
25. Which of the following is the greatest number that can divide both 18 and 42?  
A. 84                      B. 12                      C. 756                      D. 6

26. One bell rings after 4 minutes, another after 5 minutes while another rings after 6 minutes. If they are set together at 9.00 am, when will they ring together?
- A. 10.20am                      B. 9.30 am  
C. 10.00 am                      D. 11.20 am

27. A farmer harvested 2491 bags of maize in 2015 and 3421 bags in 2016. How many bags did he harvest altogether rounded off to the nearest 1000?
- A. 6000    B. 5910    C. 5912    D. 5900

28. Find the volume of the below cuboid.



- A. 42cm<sup>3</sup>                      B. 72cm<sup>3</sup>  
C. 36cm<sup>3</sup>                      D. 96cm<sup>3</sup>

29.

Weeks	Days
39	2
- 7	4
<hr/>	

- A. 31 wks 8 days              B. 46 wks 6 days  
C. 29 wks 5 days              D. 31 wks 5 days

30. Make the statement true

0.9 \_\_\_\_\_ 0.72

- A. <              B. =              C. >              D. None

31. Write down the next two numbers in the following series.

2, 3, 5, 7, \_\_\_\_\_, \_\_\_\_\_

- A. 11, 13                      B. 8, 10  
C. 9, 12                      D. 9, 11

32. Convert  $\frac{9}{15}$  into decimal.

- A. 0.75                      B. 0.37  
C. 1.667                      D. 0.6

33. The table below shows the number of pupils from class 1-6 in Karen primary school.

Class	1	2	3	4	5	6
Number	81	95	105	82	67	91

How many more pupils are in std 3 than std 5?

- A. 24                      B. 38  
C. 28                      D. 172

34. How many pupils are there in Karen primary school altogether?

- A. 501                      B. 511  
C. 519                      D. 521

35. The area of a square room is 196m<sup>2</sup>. Find its perimeter.

- A. 98m                      B. 14m  
C. 56m                      D. 49m

36. Joy bought the following items from a shop:

*3kg unga @ Sh 50*

*4kg sugar for Sh 460*

*3 packets of matchboxes @ Sh 35*

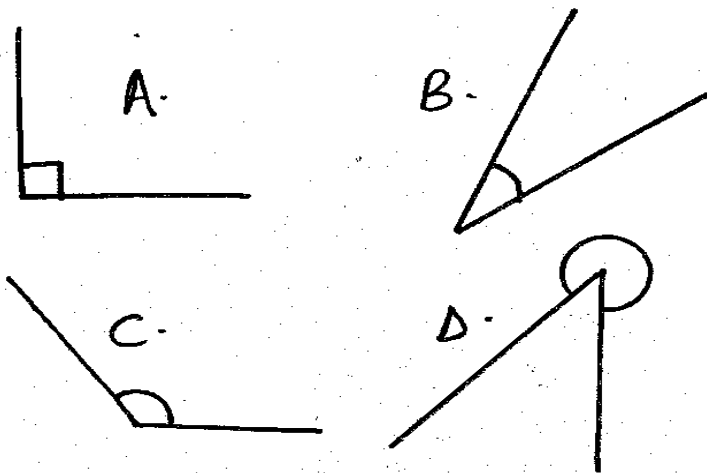
How much did she pay for the items?

- A. Sh 715  
B. Sh 545  
C. Sh 555  
D. Sh 2405

37. Arrange  $\frac{1}{2}$ ,  $\frac{2}{3}$ ,  $\frac{5}{8}$ ,  $\frac{4}{9}$  from the largest to the smallest.

- A.  $\frac{4}{9}$ ,  $\frac{5}{8}$ ,  $\frac{2}{3}$ ,  $\frac{1}{2}$   
B.  $\frac{2}{3}$ ,  $\frac{5}{8}$ ,  $\frac{1}{2}$ ,  $\frac{4}{9}$   
C.  $\frac{1}{2}$ ,  $\frac{2}{3}$ ,  $\frac{4}{9}$ ,  $\frac{5}{8}$   
D.  $\frac{4}{9}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{2}{3}$

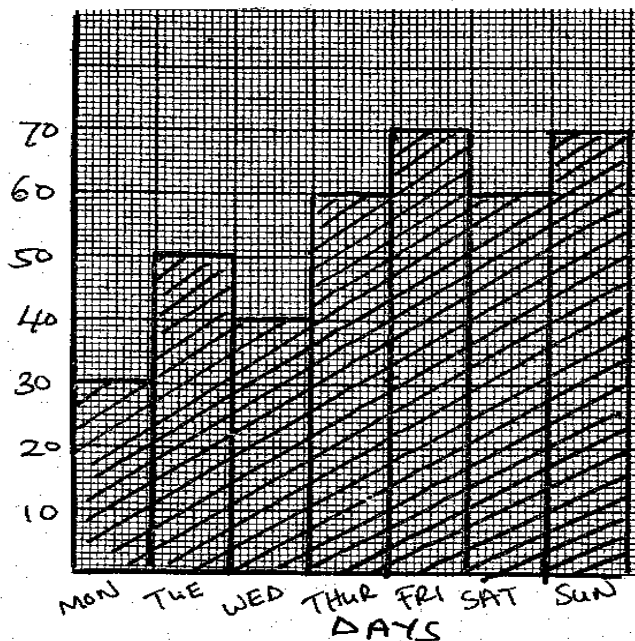
38. Which of the following is an obtuse angle?



39. What is the sum of all prime numbers between 40 and 50?

- A. 133      B. 131      C. 176      D. 134

40. The bar graph below shows the number of loaves of bread sold in a week.



How many loaves of bread were sold the whole week?

- A. 405      B. 410      C. 420      D. 380

41. Brian bought three shirts for Sh 540. How much would he pay for 15 such shirts?

- A. Sh 2700      B. Sh 8100  
C. Sh 1620      D. Sh 6480

42. What is the reciprocal of  $3\frac{1}{8}$ ?

- A.  $\frac{12}{8}$       B.  $\frac{8}{25}$       C.  $\frac{25}{8}$       D.  $\frac{8}{12}$

43. Work out:  $326$

$\times 105$

- A. 34200      B. 34211      C. 34130      D. 34230

44. Express  $\frac{12}{16}$  as a percentage.

- A. 50%      B. 75%      C. 62%      D. 72%

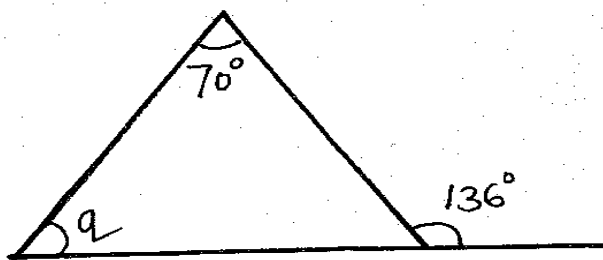
45. What is the place value of digit 3 in 2067.305?

- A. Ones      B. Tens      C. Tenths      D. Hundreds

46. Each pupil in class 6 was given 15 exercise books in a class of 87 pupils. How many exercise books were they given altogether?

- A. 1305      B. 177      C. 522      D. 1275

47. Find the angle marked  $q$ .



- A.  $66^\circ$       B.  $80^\circ$       C.  $71^\circ$       D.  $69^\circ$

48. Work out the following problem.

$$4 \overline{) 24 \text{ hr } 56 \text{ min}}$$

- A. 4 h 24 min      B. 6 h 13 min  
C. 6 h 28 min      D. 6 h 14 min

49. A meeting started at 9:45 am and ended at 12.05 pm. How long did the meeting take?

- A. 3 h 25 min      B. 2 h 20 min  
C. 3 h 20 min      D. 4 h 45 min

50. What is the next shape in the pattern?

