



SKF21G

# SKY FLYER EXAMINATIONS SERIES STANDARD SEVEN YEAR 2021

## MATHEMATICS

Time: 2 Hours

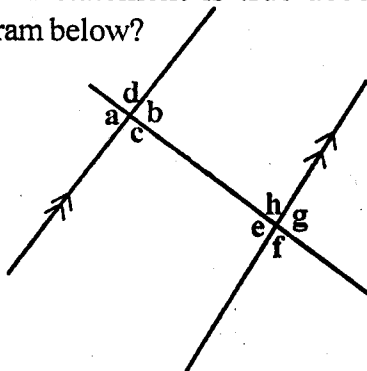
### READ THESE INSTRUCTIONS CAREFULLY

- You have been given this question paper and a separate answer sheet. The question paper contains 50 questions.
- Make sure that you have written on the answer sheet

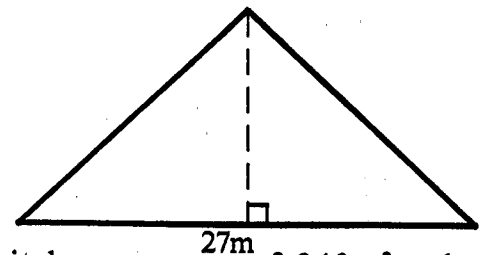
(i) Your name

(ii) Name of your school

- What is ten million, five hundred and three thousand and thirty eight in figures?  
A. 10053038      B. 10503308  
C. 10503038      D. 10053308
- What is the total value of digit 5 in the number 8053069 ?  
A. Ten thousands      B. Fifty thousand  
C. Thousands      D. Five hundred thousand
- What is the smallest number that can be subtracted from 2850 to make it divisible by 11?  
A. 4      B. 3  
C. 2      D. 1
- What is the difference between the L.C.M and the G.C.D of 36 and 54?  
A. 108      B. 18  
C. 126      D. 90
- What is the value of  $12 - 6 \div 2 + 4 \times 2$ ?  
A. 2      B. 12  
C. 17      D. 22
- What is the square root of  $13\frac{4}{9}$ ?  
A.  $13\frac{2}{3}$       B.  $1\frac{2}{9}$   
C.  $3\frac{2}{3}$       D.  $1\frac{2}{3}$
- What is 39078 divided by 13?  
A. 36      B. 306  
C. 3006      D. 30006
- Which statement is true according to the diagram below?



- A.  $a+f=180^\circ$       B.  $b+h=180^\circ$   
C.  $g+c=180^\circ$       D.  $d+h=180^\circ$
- What is 499470 rounded off to the nearest ten thousand?  
A. 490000      B. 499000  
C. 500000      D. 500470
- Which one of the following patterns increases by One hundred only?  
A. 6200, 7200, 8200, 9200  
B. 5520, 5420, 5320, 5220  
C. 7450, 7550, 7650, 7750  
D. 5630, 6630, 7630, 8630
- In a school, one bell rings after every 30 minutes while the other rings after every 35 minutes. If the two bells ring together at 7:15am at what time did they ring together again?  
A. 10:45am      B. 2:30am  
C. 8:20am      D. 12:45pm
- What is the value of  $\frac{1}{4} + \frac{1}{2}$  of  $\frac{1}{2} + \frac{1}{2}$ ?  
A.  $1\frac{1}{2}$       B.  $1\frac{1}{6}$   
C.  $\frac{3}{4}$       D.  $\frac{9}{16}$
- The figure below shows a triangle of base 27m



- If it has an area of  $243\text{m}^2$  calculate its perpendicular height.
- A. 9m      B. 18m  
C. 21m      D. 36m
  - What is 768.3894 rounded off to the nearest tenths?

- A. 769                      B. 768.3  
C. 768.39                  D. 768.4

15. Abdul bought the following items from a shop  
2kg packet of sugars for sh.180  
 $1\frac{1}{2}$ kg of rice for sh.80  
1kg of cooking oil @ sh.75  
3loafs of bread @ sh 45  
He gave the shopkeeper a sh.1000note.How  
much balance did he get?

- A. Sh.490                  B. Sh.510  
C. Sh.545                  D. Sh.455

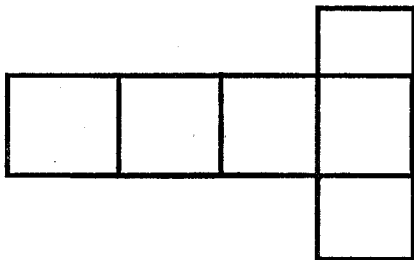
16. 150 litres of juice is packed in two decilitre  
packets.How many packets are needed?

- A. 75                          B. 750  
C.7.5                          D. 7500

17. What is the value of  $0.16 \times 4.27$  ?

- A. 0.244                  B. 2.44  
C. 24.4                      D. 0.0244

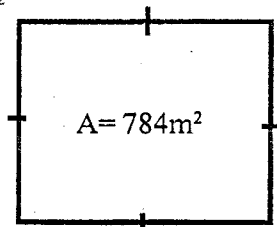
18. The diagram below shows a net of a solid.



If the net is folded to form a solid, how many  
faces will it have

- A. 5                          B. 6  
C. 8                          D. 12

19. The area of the square plot of land drawn below  
is  $784\text{m}^2$



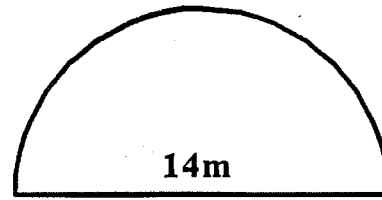
What is its perimeter?

- A. 56m                      B. 28m  
C. 108m                      D..112m

20. What is the simplified form of  
 $\frac{3}{4}(12x - 8y) + \frac{3}{5}(10y + 5x)$

- A. 12x                      B. 12x + y  
C. 12x-12y                  D. 6x + y

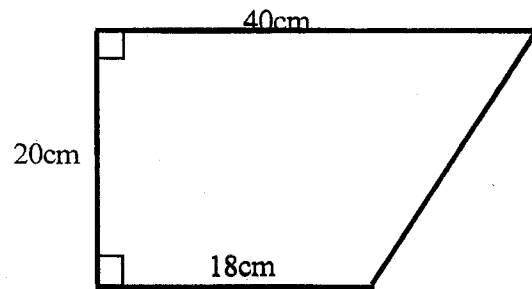
21. The following figure represents a flower garden



It was fenced using two strands of wire.What  
was the total length of wire used? ( $\pi = \frac{22}{7}$ )

- A. 36 m                      B. 72m  
C. 44m                      D. 22m

22. What is the area of the figure below?



- A.  $580\text{cm}^2$                   B.  $480\text{cm}^2$   
C.  $720\text{cm}^2$                   D.  $360\text{cm}^2$

23. How many groups of 100 are there in the total  
value of digit 4 in the number 249050?

- A. 40                          B. 400  
C. 4000                      D. 40000

24. Uria is  $y$  years old.His sister is two years  
younger.What will be the sum of their ages in 2  
years time?

- A.  $y + 2$                       B.  $y - 2$   
C.  $2y + 2$                       D.  $2y - 2$

25. Which of the following statement is true about  
a square?

- A. All sides are parallel  
B. Diagonals are not equal  
C. Diagonals bisect interior angles  
D. Interior angles add upto  $180^\circ$

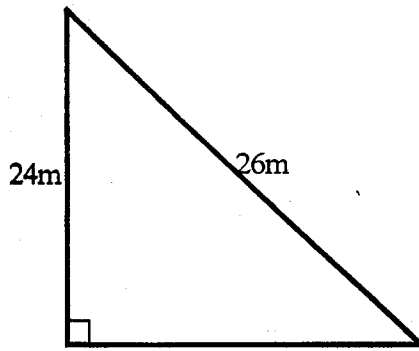
26. 9 men can dig a piece of land in 12 days.How  
long will 3 men take to dig a piece of land?

- A. 108 days                  B. 36 days  
C. 24 days                      D. 48 days

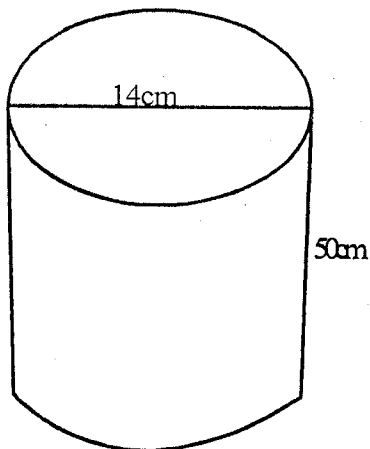
27. A transporter packed 40 bags each of 90kg in a  
pick up 1.7tonnes heavy.What was the mass of  
the loaded pickup in Kg?

- A. 360                          B. 3.6  
C. 5300                      D. 5.3

28. What is the base of the triangle drawn below?

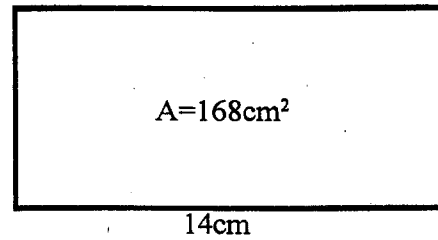


- A. 50m                      B. 2m  
C. 10m                      D. 624m
29. What is the value of  $x$  in  $\frac{1}{2}x - 5 = 7$   
A. 3                          B. 6  
C. 12                         D. 24
30. Construct triangle XYZ in which  $XY=6\text{cm}$ ,  $YZ=6.5\text{cm}$  and  $XZ=7\text{cm}$ , What is the value of angle YZX?  
A.  $52^\circ$                       B.  $59^\circ$   
C.  $69^\circ$                       D.  $128^\circ$
31. The price of a book increased by 25% to sh. 9000. What was the price before the increase?  
A. Sh.11250                  B. Sh.8000  
C. Sh. 7200                  D. Sh.12000
32. The cost of 3 pens is sh.270. What is the cost of 6 such pens?  
A. Sh.180                      B. Sh. 420  
C. Sh. 540                      D. Sh. 90
33. What is the volume of the solid drawn below?

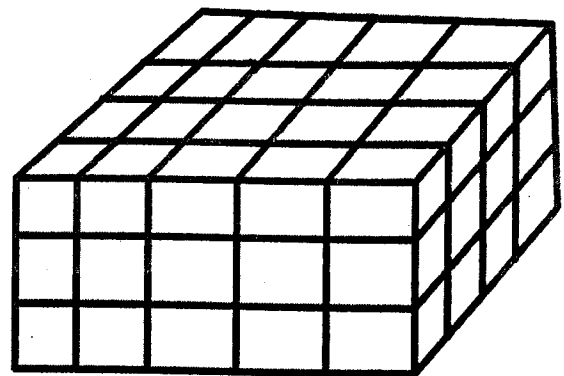


- A.  $15500\text{cm}^3$                   B.  $6160\text{cm}^3$   
C.  $3080\text{cm}^3$                   D.  $7700\text{cm}^3$

34. What is the perimeter of rectangle drawn below if its area is  $168\text{cm}^2$  and its length is  $14\text{cm}$ ?



- A. 26cm                      B. 52cm  
C. 12cm                      D. 72cm
35. What is the simplified form of the inequality  $3x - 4 < 12 - x$   
A.  $x > 4$                       B.  $4 > x$   
C.  $x < 3$                       D.  $x < 2\frac{1}{4}$
36. A lorry covered a distance of  $270\text{km/h}$  in 3 hours. What was its speed in  $\text{M/sec}$ ?  
A. 90                              B. 30  
C. 324                             D. 25
37. Mark scored 18 out of 25 in a maths test. What was his marks as a percentage  
A. 72%                          B. 36%  
C. 60%                          D. 64%
38. How many cubes were used to make the stack below

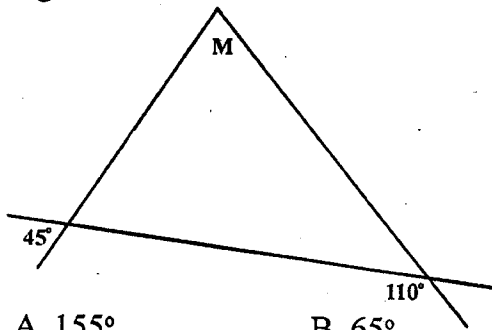


- A. 47                              B. 80  
C. 60                              D. 120
39. What is the value of  $\sqrt{0.0784}$ ?  
A. 0.28                          B. 0.028  
C. 0.0028                      D. 2.8

40. Which of the following fractions will give a terminating decimal?

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

41. What is the value of the angle marked M in the figure below?



- A.  $155^\circ$                       B.  $65^\circ$   
 C.  $70^\circ$                       D.  $80^\circ$

42. What is the value of  $2(6^2 - 3^2) + 3$

- A. 30                      B. 18  
 C. 24                      D. 33

43. Which of the following is true concerning faces, edges and vertices in open cubes and cuboids?

	Faces	Edges	Vertices
A.	5	8	12
B.	6	8	12
C.	6	12	8
D.	5	12	8

44. What is the next number in the pattern 11, 13, 17, 19, 23 \_\_\_\_\_

- A. 29                      B. 25  
 C. 27                      D. 30

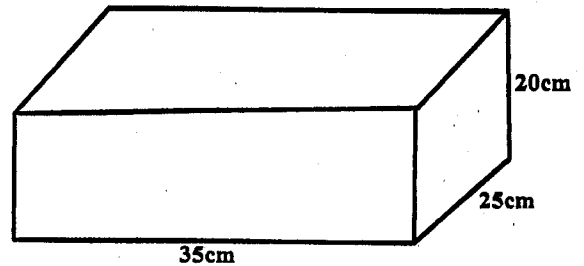
45. In a village there were 9342649 people. Out of this 4324962 were women, 1962493 were children the rest were men. How many men were there?

- A. 5017687                      B. 3055194  
 C. 6287455                      D. 7380156

46. The fraction  $\frac{2}{3}, \frac{6}{7}, \frac{3}{4}, \frac{7}{12}$  are to be arranged from the largest to the smallest. What is the correct order of arranging them?

- A.  $\frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{6}{7}$                       B.  $\frac{6}{7}, \frac{3}{4}, \frac{2}{3}, \frac{7}{12}$   
 C.  $\frac{6}{7}, \frac{7}{12}, \frac{2}{3}, \frac{3}{4}$                       D.  $\frac{7}{12}, \frac{6}{7}, \frac{3}{4}, \frac{2}{3}$

47. What is the volume of the cuboid drawn below?



- A.  $17500\text{cm}^3$                       B.  $1750\text{cm}^3$   
 C.  $175000\text{cm}^3$                       D.  $175\text{cm}^3$

48. What is the square root of  $9^2$ ?

- A. 18                      B. 3  
 C. 9                      D. 81

49. What is the value of  $1 + 2 + 3$  ( $1+2+3$ )

- A. 36                      B. 3  
 C. 12                      D. 21

50. What is the next shape in the pattern

