

# ACADEMIC BREAKTHROUGH SERIES

## STD. 7 - YEAR: 2021

SASON  
002

### MATHEMATICS

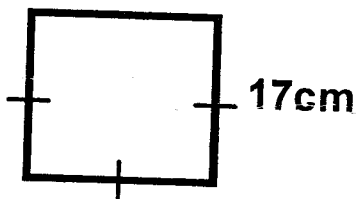
Time: 2 Hrs.

- Write 8537 in words.  
A. Eight hundred, five hundred and thirty seven  
B. Eight thousand five hundred and thirty seven  
C. Eighty thousand five hundred and thirty seven  
D. Eighty five thousand and thirty seven
- What is the place value of digit 7 in 37820?  
A. Ones  
B. Hundreds  
C. Thousands  
D. Tens of thousands
- Round off 5219 to the nearest hundreds.  
A. 5210  
B. 5000  
C. 5220  
D. 5200
- There are 396 boys and 529 girls at Ngoloko primary school. How many pupils are there in the school?  
A. 133  
B. 915  
C. 825  
D. 925

5. Work out:

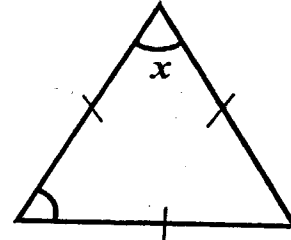
$$42725 \times 15 =$$

- A. 640875                      B. 42740  
C. 640855                      D. 630875
6. Which one of the following numbers is divisible by 3?  
A. 5108                          B. 2900  
C. 9132                          D. 4087
7. Find the area of the square below.

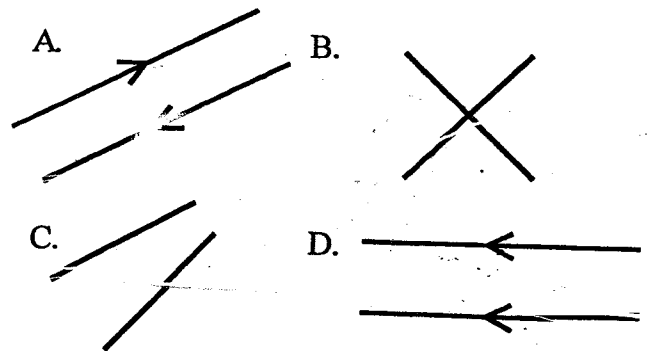


- A.  $68 \text{ cm}^2$                       B.  $289 \text{ cm}^2$   
C.  $289 \text{ cm}$                       D.  $34 \text{ cm}^2$

8. What is the size of angle  $x$ ?



- A.  $40^\circ$                               B.  $90^\circ$   
C.  $60^\circ$                               D.  $50^\circ$
9. Which of the following lines are parallel?



10. What is the total value of digit 2 in 2738?  
A. Thousands                      B. 2000  
C. 3000                              D. 2700
11. Work out:

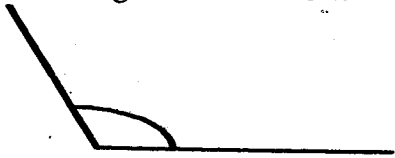
$$\frac{1}{11} \text{ of } 99 =$$

- A. 9                                      B. 1089  
C. 110                                  D. 88
12. A sports meeting started at 2.00 p.m and ended at 6.30 p.m. How long was the meeting?  
A. 4 hrs 30 min                      B. 8 hrs 30 min  
C. 6 hrs 28 min                      D. 6 hrs 32 min
13. Work out:

$$2w - 9 - w = 9$$

- A. 0                                      B. 18  
C. 1                                      D. 9

14. Name the angle shown below.



- A. Right angle
- B. Acute angle
- C. Reflex angle
- D. Obtuse angle

15. Simplify:

$$\frac{45}{60}$$

A.  $\frac{9}{12}$

B.  $\frac{5}{60}$

C.  $\frac{3}{4}$

D.  $\frac{20}{30}$

16. Subtract 56 from 455.

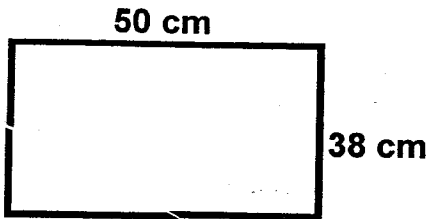
A. 49

B. 399

C. 309

D. 361

17. Find the perimeter of the figure below.



A. 1900

B. 88 cm

C. 178 cm<sup>2</sup>

D. 178 cm

18. Find the L.C.M of 3, 4 and 8.

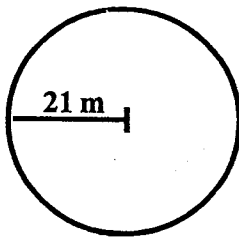
A. 36

B. 24

C. 8

D. 12

19. Find the circumference of a circle whose radius is 21 m.



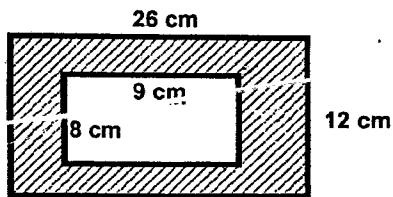
A. 66 m

B. 44 m

C. 132 m

D. 76 m

20. Calculate the area of the shaded region.



A. 384 cm<sup>2</sup>

B. 312 cm<sup>2</sup>

C. 240 cm<sup>2</sup>

D. 72 cm<sup>2</sup>

21. Work out:

Weeks	Days
2	4
+ 1	5

A. 3 weeks 9 days

B. 4 weeks 2 days

C. 3 weeks 2 days

D. 4 weeks 1 day

22. Find the G.C.D of 24 and 36.

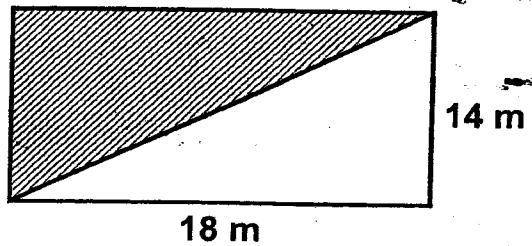
A. 6

B. 18

C. 72

D. 12

23. Find the area of the shaded region.



A. 252 m<sup>2</sup>

B. 54 m<sup>2</sup>

C. 126 m<sup>2</sup>

D. 216 m<sup>2</sup>

24. The number of people in Taliban village was 170999 last year. If that number has increased by 2345 people, how many people are in that village?

A. 19444

B. 173334

C. 168654

D. 173344

25. Express 72 as a product of two factors.

A. 9 x 6

B. 8 x 9

C. 7 x 8

D. 9 x 9

26. How many five shilling coins are there in 100 shilling note?

A. 20

B. 50

C. 10

D. 500

27. What is 6 m 27 cm to the nearest metres?

A. 6 m

B. 5 m

C. 7 m

D. 627 m

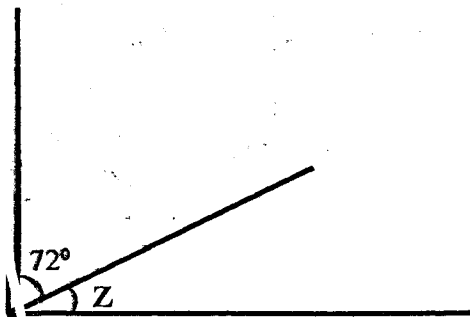
28. A farmer sold 14 litres of milk daily last week. How much money did he get if the cost of one litre of milk was 23 shillings?

- A. Sh. 322
- B. Sh. 161
- C. Sh. 259
- D. Sh. 2254

29. Write 0.75 as a fraction to its simplest form.

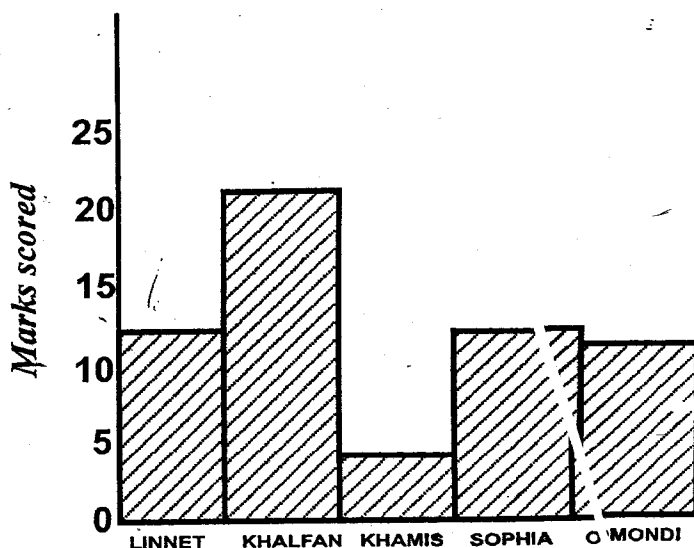
- A.  $\frac{1}{2}$
- B.  $\frac{1}{5}$
- C.  $\frac{3}{4}$
- D.  $\frac{1}{75}$

30. What is the size of angle Z?



- A.  $12^\circ$
- B.  $18^\circ$
- C.  $60^\circ$
- D.  $20^\circ$

Use the graph to answer questions 31 - 34.



31. Which two pupils scored the same marks?

- A. LINNET AND OMONDI
- B. SOPHIA AND LINNET
- C. KHALFAN AND KHAMIS
- D. SOPHIA AND OMONDI

32. Who scored half the marks that Khalfan scored?

- A. KHAMIS
- B. SOPHIA
- C. LINNET
- D. OMONDI

33. Who scored the **LEAST** marks?

- A. Khamisi
- B. Khalfan
- C. Omondi
- D. Linnet

34. Who scored the **HIGHEST** marks?

- A. Khamisi
- B. Omondi
- C. Sophia
- D. Khalfan

35. Divide Sh. 1404 by 9.

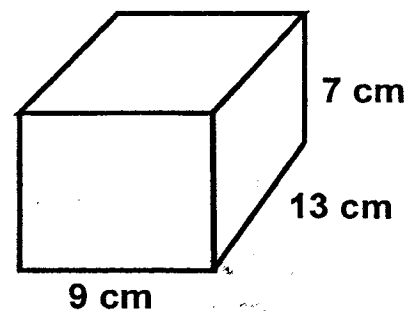
- A. Sh. 156
- B. Sh. 1413
- C. Sh. 1395
- D. Sh. 12636

36. Arrange from the smallest to the largest.

$$\frac{1}{2}, \frac{2}{3}, \frac{3}{8}$$

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

37. What is the volume of the figure below?



- A.  $919 \text{ cm}^3$
- B.  $719 \text{ cm}^3$
- C.  $219 \text{ cm}^3$
- D.  $819 \text{ cm}^3$

38. Work out:

$$18.32 - 7.35 =$$

- A. 11.97
- B. 10.07
- C. 10.87
- D. 10.97

39. If 2004 was a leap year, what will be the next leap year?

- A. 2006
- B. 2010
- C. 2008
- D. 2009

40. Multiply 685 by 65.

- A. 44552
- B. 44525
- C. 1598
- D. 1498

41. Change 8 hrs 32 minutes into minutes.

- A. 832 minutes
- B. 412 minutes
- C. 512 minutes
- D. 480 minutes

42. Find the value of x in:

$$\frac{4}{5} = \frac{x}{10}$$

- A. 8
- B. 13
- C. 16
- D. 20

43. Maalifu bought the following items from a shop.

- 2 kg rice for Sh. 120.
- 3 kg sugar at Sh. 90 per kilo.
- 2 kg wheat flour at Sh. 35 per kilo.

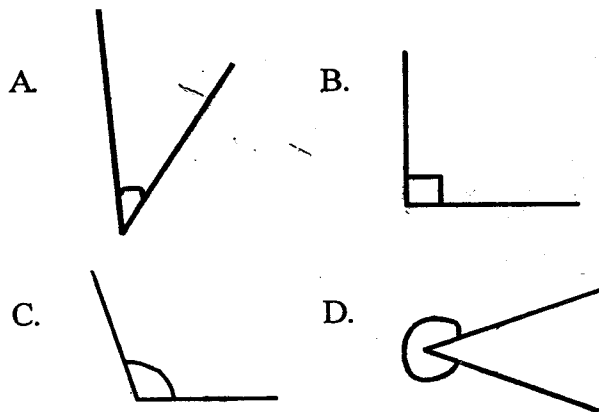
How much did she pay for the items?

- A. Sh. 245
- B. Sh. 460
- C. Sh. 580
- D. Sh. 135

44. Express  $\frac{23}{7}$  as a mixed number.

- A.  $2\frac{3}{9}$
- B.  $3\frac{2}{9}$
- C.  $3\frac{2}{7}$
- D.  $7\frac{2}{3}$

45. Which is a reflex angle?



46. There are 480 sweets in a packet. How many sweets are there in 27 packets?

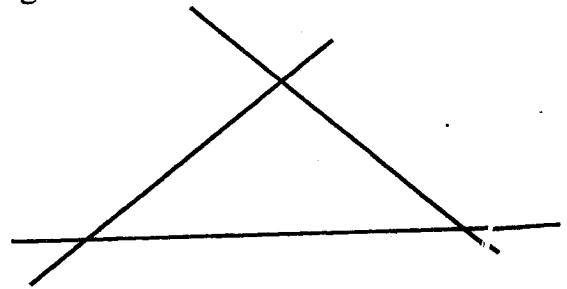
- A. 17
- B. 12960
- C. 507
- D. 453

47. Work out:

$$3\frac{1}{6} + 7\frac{1}{3}$$

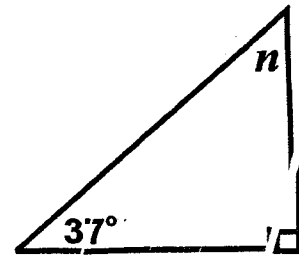
- A. 10
- B.  $10\frac{2}{9}$
- C.  $10\frac{1}{2}$
- D.  $10\frac{1}{3}$

48. How many points of intersections are in the figure below?



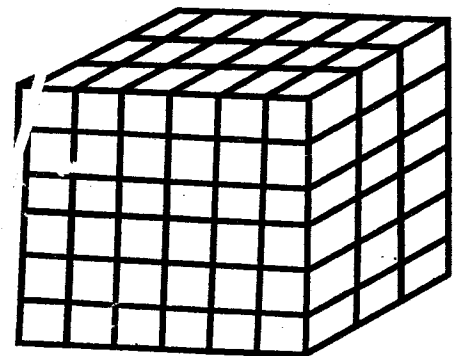
- A. 2
- B. 1
- C. 3
- D. None

49. What is the value of the angle shown below?



- A.  $53^\circ$
- B.  $37^\circ$
- C.  $143^\circ$
- D.  $43^\circ$

50. How many cubes are used to make the stack?



- A. 108
- B. 42
- C. 54
- D. 79