STANDARD SEVEN - 2018

MATHEMATICS

Time: 2hrs

What is 6060660.060 in words?

- A. Six million sixty thousand six hundred and sixty and six hundredths.
- B. Sixty million sixty thousand six hundred and sixty and sixty thousandths.
- C. Six million sixty thousand six hundred and sixty and sixty thousandths.
- D. Six hundred and six thousand six hundred and sixty and sixty thousandths.
- What is the sum of the total value of digit 4 and 3 in the number 23645?

A. 3000

B. 40

C. 2960

D. 3040

3. What is the smallest number that should be added to **9595** to make it divisible by **11**?

A. 3

B. 5

C. 6

D. 8

4. Round off 23439 to the nearest thousand.

A. 23400

B. 23000

C. 20000

D. 23440

5. Work out $40 + (12 - 3^2) \div 6 \times 2$

A. 41

. B 24

C. 14¹/₃

D. 28

6. Work out $4^{1}I_{2} \times 3^{1}I_{2} \div {}^{1}I_{4} =$

A. 63

4 B 1/

C. 315/16

D. 9/28

7. increase shs. 80.80 by 80%

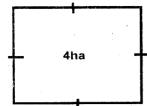
A. shs. 101.00

B. shs. 145.44

C. shs. 64.64

D. shs. 160.80

8. The area of the square drawn below is 4ha. What is the measure of one side of the square?



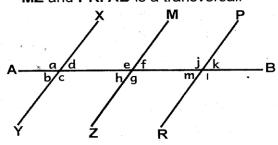
A. 2m

B. 20m

C. 200m

D. 2000m

In the figure below line XY is parallel to lineMZ and PR. AB is a transversal.



Which statement is **true** about the figure above?

- A. Angle d = f = h = l
- B. Angle c and g are alternating angles

 $C. c + h + i + d = 180^{\circ} \times 2$

D. d, f and m are corresponding angles

10. During a tree planting day 240 pupils and 64 teachers participated. If each pupil planted 3 trees and each teacher planted 5 trees, how many trees were planted altogether?

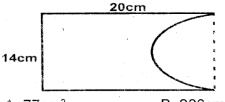
A. 912

B. 1520

C. 1040

D. 312

11. What is the area of the figure below?



A. 77cm²

B. 280cm²

C. 357cm²

D. 203cm²

12. Work out 5(2.2 - 0.2) + 0.5

A. 50.5

B. 52.5

C. 10

D. 10.5

- 15. What is the value of y in the equation $^{2}/_{c}y + 3 = 17$
 - A. 35

B. 50

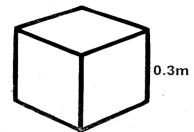
C. 25

- D. 8
- 14. A school bus can carry 36 pupils per trip. How many trips will it make if 290 pupils must be transported to an agricultural show?
 - A. 8

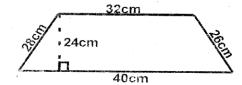
B. 2

C. 9

- D. 7
- 15. What is the volume of the cube below in cm³?



- A. 0.027
- B. 2.7
- C. 2700
- D. 27000
- 16. Kamau is 3 years older than Jane, Peter is 4 years younger than Jane. If Jane is x years. what is the sum of their ages now?
 - A. (3x + 1) years
 - B. (3x 1) years
 - C. (3x + 7) years
 - D. (3x 7) years
- 17. In a certain sub-county there are 84 schools. Each school had 450 pupils where each pupil was given 12 books. How many books were given altogether in the sub-county?
 - A. 45360
- B. 6408
- C. 546
- D. 453600
- 18. What is the area of the trapezium below?



- A. 864cm²
- B. 1768cm²
- C. 960cm²
- D. 126cm²
- 19. Change 90km/hr to m/s.
 - A. 20m/s
- B. 324m/s
- C. 25m/s
- D. 45m/s

- 20. A square carpet had an area of 16m2. It was cut into four equal squares. What was the perimeter of each small carpet?
 - A. 8m

B. 16m

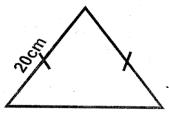
C. 2m

- D. 4m
- 21. What is the sum of edges, vertices and faces · of an open cuboid?
 - A. 26

B. 480

C. 25

- D. 576
- 22. The perimeter of the triangle below is 72cm. What is its area?



- A. 384cm²
- B. 400cm²
- C. 200cm²
- D. 192cm²
- 23. What is the value of

1/₄ of √ 256

A. 16

B. 4

C. 8

- D. 64
- 24. What is the L.C.M. of 18, 27 and 54?
 - A. 9

B. 99

C. 54

- D. 108
- 25. What is 69.9975 to the nearest whole?
 - A. 69

- B. 70
- C. 70.99
- D. 69.998
- 26. Njoroge bought the following items from a shop.
 - 3 400g packets of tea leaves at shs. 60.00
 - 2 2kg packets of flour @ shs. 140.00
 - 21/,kg of meat at shs. 250.00
 - 4 bars of soap for shs. 480.00 How much did he pay for the items?
 - A. shs. 1565
- B. shs. 3285
- C. shs. 3005
- D. shs. 1085
- C. sns. 3000 27. Work out $3^{1}/_{2} \div 1^{1}/_{4} \div 7/_{10}$ B. $1^{24}/_{25}$

C. 25/28

D. 1/4

28. What is the square root of $\sqrt{5^{1}I_{16}}$

C. 251/256

D. 21/2

29. What is 3 ÷ 13 to three decimal places.

A. 0.230

B. 2.308

C. 0.231

D. 0.23

30. Work out $2^{1}I_{4} - 5^{2}I_{5} + 4$

A. 3¹³/₂₀

C. 117/20

- D. 17/20
- 31. What is the value of r in the magic square below.

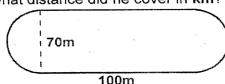
8		9
r	7	
		6

A. 7

B. 6

C. 8

- D. 5
- 32. Kungu went round the field below 5¹/₂, times. What distance did he cover in km?



A. 420

- B. 2.695
- C. 2.31
- D. 0.42
- 33. Which one of the following statements is true about quadrilaterals?
 - A. Square is a special rectangle.
 - B. Rhombus is a special square.
 - C. Parallelogram is a special rhombus.
 - D. Opposite angles of a trapezium are equal.
- 34. Which one of the fractions below forms a terminating decimal?
 - A. 7/22

B. 1/3

C. 3/2

- D. 3/0
- 35. What distance is covered by a wheel of radius 21cm, if it makes 500 revolutions in km?
 - A. 132
- B. 66000
- C. 0.66
- D. 0.33

36. Bidii primary school has 450 pupils. If 60% are girls, how many more girls than boys are there in that school?

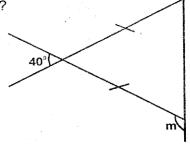
A. 270

B. 180

C. 90

D. 45

37. Find the value of the angle marked m in the figure below?



A. 40°

B. 140° D. 110°

C. 70°

38. Simplify the equation

 $\frac{1}{3}$ (9y + 6m) + 4 (y + 2m) A. 7y + 10m

B.5y + m

C. 10y + 8m

D. 10y + 7m

39. What is the reciprocal of 0.5%?

A. 1/20

B. 1/200

C. 200

D. 20

40. Wafula made a loss of 20% after selling his bicycle for shs. 4800. How loss did he make?

A. shs. 1200

B. shs. 2400

C. shs. 960

D. shs. 6000

41. What is the next number in the pattern below?

11, 13, 16, 21, 28, __

A. 37

B. 41

D. 39

42. A father had shs. 6000. He gave 20% to one of the sons and 20% of the remainder to the daughter. He shared the remaining amount equally with the wife. How much did the wife get?

A. shs. 3840

B. shs. 1920

C. shs. 1200

D. shs. 960

43. What is the mean of the following numbers 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

A. 55

B. 5.5

C. 5

D. 6

44. A meeting that took 8hours 40min ended at 7.35p.m. At what time had the meeting started?

A. 10.55a.m.

B. 10.55p.m.

C. 4.25a.m.

D. 1.05a.m.

45. The circumference of the semicircle below is **44**cm. What is its radius?



A. 28cm

B. 21cm

C. 14cm

D. 7cm

46. Construct triangle **XYZ**, where line **YZ** = **8cm** angle **XYZ** = **YZX** = **45**°. What is the length of line **XZ**.

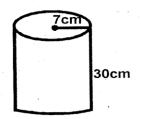
A. 6.1cm

B. 6.8cm

C. 4.9cm

D. 5.6 cm

47. What is the surface area of the solid below?



A. 1320cm²

B. 1474cm²

C. 1628cm²

D. 4620cm²

48. The pie-chart below shows how Kinyua spent his day.



How many hours did he spend sleeping?

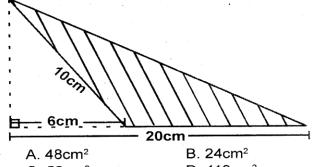
A. 8 hours

B. 6 hours

C. 4 hours

D. 3 hours

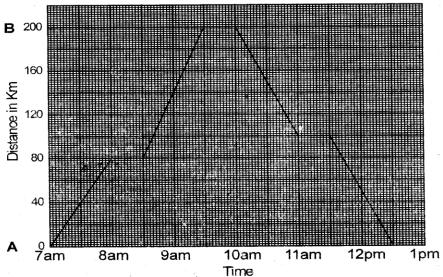
49. What is the area of the shaded part in the figure below?



C. 56cm²

D. 112cm²

50. The graph below shows the journey of a motorist from town A to town B and back.



What distance did he cover between 8.30a.m. and 11.00a.m.?

A. 80km

B. 100km

C. 200km

D. 220km