HIGHPERFORMANCE EXAM SERIES
STANDARD SEVEN
[7]
003 MATHEMATICS
YEAR 2020

READ THESE INSTRUCTIONS CAREFULLY

1. Use an ordinary pencil only.
2. Make sure that you have written on the answer sheet:-
   (I) YOUR NAME   **(II) NAME OF YOUR SCHOOL**
3. When you have chosen your answer, mark it on the ANSWER SHEET, not in this question booklet.

Time : 2 Hours

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1. What is the **place value** of **digit 7** in the number **87569?**
   A. Tens
   B. Thousands
   C. Hundreds
   D. Ten thousands

2. Round off **87364** to the **nearest thousands**
   A. 87000
   B. 87300
   C. 90000
   D. 87360

3. Mr. Mwairumba a farmer in Taita Taveta county harvested **48,673** bags of maize, 6737 bags of beans and **3695** bags of millet in year **2010**. How many bags did he harvest **altogether?**
   A. 59205
   B. 59501
   C. 69205
   D. 95105

4. Find the **G.C.D** of **24, 48** and **72.**
   A. 48
   B. 8
   C. 24
   D. 144

5. Which among the numbers is **divisible by 8?**
   A. 46249
   B. 38416
   C. 92402
   D. 87411

6. Work out: $(17)^2$
   A. 256
   B. 289
   C. 189
   D. 389

7. Work out: **37248 + 48 + 93645 =**
   A. 130491
   B. 130904
   C. 130941
   D. 139041

8. There were **896 children** in Riara Primary School. If each child contributed **Sh. 430** for a trip, how much money did they contribute altogether?
   A. 358280
   B. 385280
   C. 385180
   D. 385820

9. The table below shows the number of bags of groundnuts harvested by a farmer over period of 5 years from 2006 - 2010.

Year	2006	2007	2008	2009	2010
No of bags	493	—	680	720	1420

If he had harvested a total of **3877 bags** for **5 years**. How **many bags** had he harvested in **2007?**
   A. 3313
   B. 464
   C. 664
   D. 564

10. Find the **next number** in the sequence **1, 8, 15, 22, _____**
    A. 19
    B. 23
    C. 29
    D. 25

11. Which is the **smallest number** which is **divisible** by **19, 12** and **18?**
    A. 36
    B. 42
    C. 48
    D. 72

12. Work out: $\frac{2}{3} + \frac{3}{4} + \frac{3}{5} =$ _____
    A. $3\frac{1}{60}$
    B. $2\frac{1}{60}$
    C. $4\frac{5}{60}$
    D. $1\frac{1}{60}$

13. Remove the brackets and simplify $2(3x + 4) + 3(2x + 5) =$ _____
    A. 12x - 7
    B. 12x + 7
    C. 14x + 23
    D. 12x + 23

14. Find the area of the figure below;

A. 128m²
B. 88m²
C. 988m²
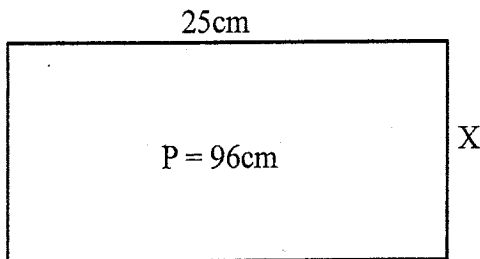D. 798m²

15. Solve for x: $1\frac{1}{3}x - 7 = 21$
    A. 14   B. 21

    C. $10\frac{1}{2}$ D. 12

16. Which statement is **not correct?**

    A. $\frac{1}{2} = 50\%$ B. $0.6 = \frac{3}{5}$

    C. $\frac{3}{4} < \frac{2}{3}$ D. $400g > \frac{1}{4}kg$

17. Multiply: $8\frac{3}{4}$ by $\frac{2}{5}$ = _____

    A. $4\frac{1}{2}$ B. $3\frac{1}{2}$

    C. $5\frac{1}{2}$ D. $1\frac{1}{2}$

18. Work out: $(5\frac{1}{2})^2$
    A. $3\frac{1}{4}$ B. $12\frac{1}{4}$

    C. $5\frac{1}{4}$ D. $30\frac{1}{4}$

19. If the **perimeter** of the rectangle below is **96cm**. Find the width X?

    25cm

    P = 96cm   X

    A. 23cm   B. 19cm
    C. 24cm   D. 18cm

20. Find the **area** of the triangle below.

    25cm
    24cm
    7cm

    A. 168cm²   B. 84cm²
    C. 175cm²   D. 57cm²

21. What is the sum of **prime numbers** between **50** and **60**?
    A. 417   B. 297
    C. 112   D. 236

22. Write **49** in **Roman** number
    A. XLXI   B. LXIX
    C. XLIX   D. XILXI

23. Work out:-

km	m
2	540
x	3

    A. 6 km 1620 m   B. 8 km 620 m
    C. 7 km 620 m   D. 7 km 1620 m

24. Juma is **0.32m** taller than Kamau. If Kamau is **1.25m**, how tall is Juma?
    A. 1m 25cm   B. 1m 57cm
    C. 1.57cm   D. 157m

25. Kamiro drove from town **A** to **B** though town **C**

    C
    520km
    A
    350km
    B
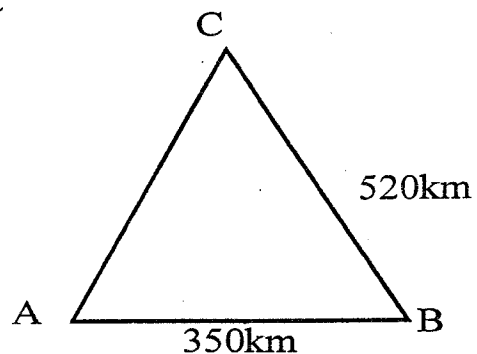
    What **distance** did he cover **altogether** in **kilometres?**
    A. 1350km   B. 13.5km
    C. 1350m   D. 1km

26. Work out:
    $0.367 + 1.005 + 4.3 = $ _____
    A. 56.72   B. 5.672
    C. 0.5672   D. 5672

27. Judy went to school at **8.20am** and went back home at **4.30pm.** For **how long** had she been in school?
    A. 9 hours 10 minutes
    B. 8 hours 10 minutes
    C. 7 hourrs 70 minutes
    D. 7 hours 20 minutes
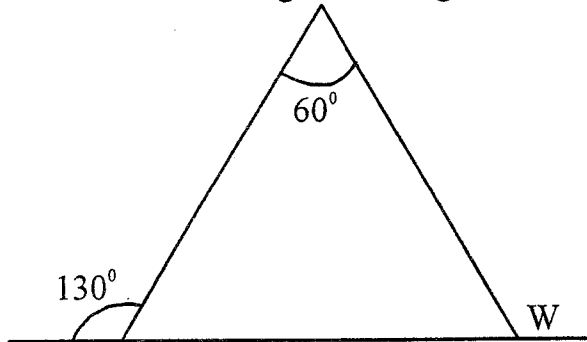
28. What is the **volume** of the box below in **cm³?**

    2.5m
    0.38m
    0.52m
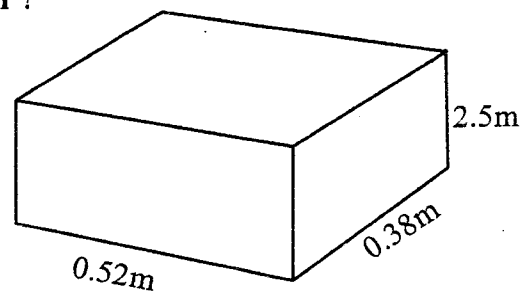
    A. 49400cm³   B. 4.94 cm³
    C. 494000cm³   D. 0.494 cm³

29. Work out:-

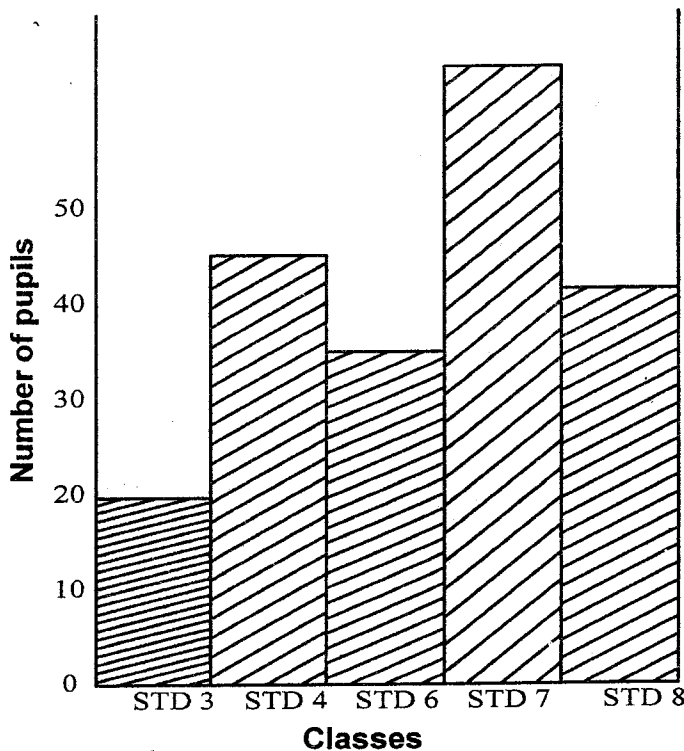| Hrs	Min
8	45
- 5	50

_____

A. 2 hours 55 minutes
B. 3 hours 55 minutes
C. 14 hours 35 minutes
D. 2 hours 05 minutes

30. Find the value of angle **W** in degrees.

A. 50^0 B. 70^0
C. 110^0 D. 120^0

The graph below shows the number of pupils who attended swimming lessons in a week from different classes. Use it to answer question 31;

31. How **many** pupils attended swimming from all classes in the **whole week**?
A. 195   B. 300
C. 205   D. 105

32. How many $^2/_3$ **packets** can be obtained from **60 kg** of sugar?
A. 40 packets   B. 120 packets
C. 30 packets   D. 90 packets

33. A packets of pishori rice weighed $3^2/_5$**kg**. How **many grams** were these?
A. 240g   B. 3400g
C. 200040g   D. 2400g

34. Sam went to a supermarket and bought the following items;
- *$2^1/_2$kg of sugar @ Sh. 80*
- *1 $^1/_2$kg of rice @ Sh. 60*
- *2 bars of soap for Sh. 120*
If she gave out the Sh. 500, how much change did she get?
A. Sh. 410   B. Sh. 70
C. Sh. 530   D. Sh. 90

The table below shows charges for letter according to postal rates. Use it to answer question 35;

Letter limit of weight	Shs.	Cts.
1g up to 10g	12	00
Over 10g up to 30g	15	00
Over 30g up to 100g	20	00
Over 60g up to 100g	70	00
Over 100g up to 200g	120	00
Over 200g up to 500g	130	00
Over 500g up to 1kg	150	00

35. Atisi sent the following three letters weighing **15g**, **230g** and **920g** respectively. How much did she pay?
A. Sh. 295   B. Sh. 250
C. Sh. 395   D. Sh. 280

36. If **1 cm** represent **400 m**, re-write the scale in ratio form.
A. 1 : 400m   B. 1 : 4000
C. 1 : 40000   D. 1 : 400000

37. Arrange the fractions from the **smallest** to the **largest**;
$^1/_2$, $^3/_4$, $^2/_5$, $^4/_5$

A. $^4/_5$, $^3/_4$, $^1/_2$, $^2/_5$ B. $^2/_5$, $^3/_4$, $^4/_5$, $^1/_2$

C. $^3/_4$, $^2/_5$, $^1/_2$, $^4/_5$ D. $^2/_5$, $^1/_2$, $^3/_4$, $^4/_5$

38. Work out: **40% of 960**
A. 240   B. 340
C. 420   D. 384

39. Mr. Kenja earns **Sh. 4800** per month. If he saves **40%**, how much does he save?
A. Sh. 2880   B. Sh. 2480
C. Sh. 1820   D. Sh. 1920

40. Work out:
23316 ÷ 58 =
A. 42   B. 402
C. 4002   D. 40002

41. Work out:
$3\frac{1}{2} \div 1\frac{3}{4} =$ _____

A. 2   B. $\frac{3}{4}$

C. $\frac{1}{2}$ D. $\frac{2}{3}$

42. Convert **4375 mililitres** into **litres**
A. 0.4375 litres   B. 4.375 litres
C. 43.75 litres   D. 437.5 litres

**43.** Find the **unshaded area** (uniform margin of 2cm)
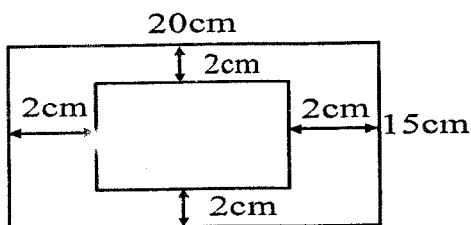
A. 476cm²   B. 176cm²
B. 300cm²   D. 124cm²

44. Solve for *y* in the equation
2y - 3 + 4y = 21
A. 3   B. 8
C. 4   D. 6

45. Find the **perimeter** of the rectangle below
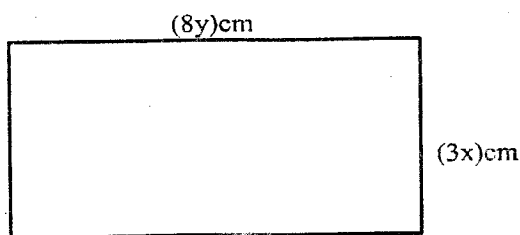
A. (16y + 6x)cm   B. (3y + 16x)cm
C. (18y + 3x)cm   D. (32y + 12x)cm

46. Work out:-
432114 + 3671 + 88 = _____
A. 56973   B. 69473
C. 36973   D. 46973

47. Round off **38.169** to **2 decimal places**
A. 38.170   B. 38.20
C. 38.17   D. 38.2

48. How many **250g packets** can be obtained from **75kg** of **wheat flour?**
A. 300   B. 30
C. 30000   D. 3000

49. Work out:
120 ÷ $\frac{2}{3}$ = _____
A. 80   B. 180
C. 40   D. 96

50. The graph below shows the price of a certain commodity and the mass one can buy for a particular price.
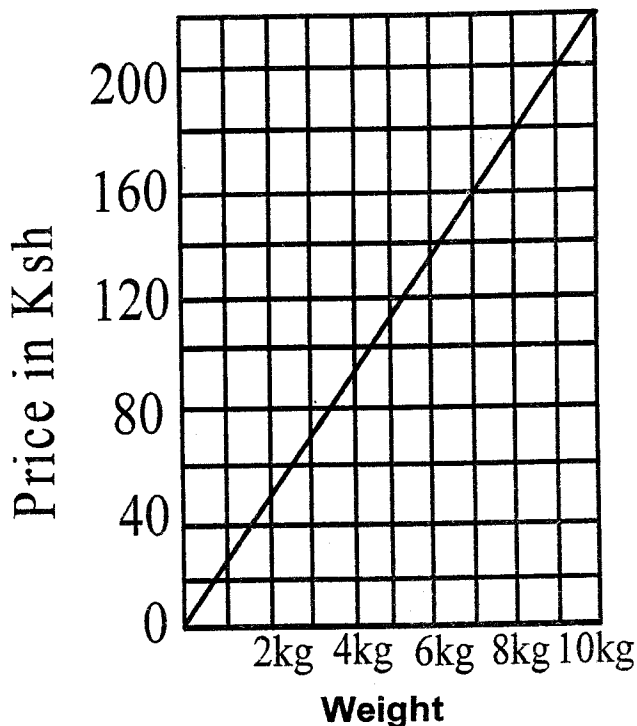
How much can one pay for 3kg of the commodity?
A. Sh. 58   B. Sh. 50
C. Sh. 60   D. Sh. 65