("H	FRONTRUNNER EXAM SERIES				
	STANDARD EIGHT - YEAR 2022				
	FE FRONT RUNNER [8]	MATHEMATICS			
RE	AD THESE INSTRUCTIONS CAREFULLY				
1.	Use an ordinary pencil only.	Time : 2 Hours			
2.	Make sure that you have written on the answer	sheet:-			
	(I) YOUR INDEX NUMBER (II) YOUR	NAME (III) NAME OF YOUR SCHOOL			
. 3.	when you have chosen your answer, mark it o	n the ANSWER SHEET, not in this question booklet.			
1.	What is the total value of digit 6 in th	e 9. A bag of beans has a mass of 90.4kgs. The			
	A 600 B 6000	bought 15 bags of beans. What was the total			
	C. 60,000 D. Ten thousand	mass of beans bought in kilograms?			
		A. 1627.2kg B. 1352.25kg			
2.	Which among the numbers is divisible b	y C. 1559.75kgs D. 5100kg			
	A. 412876 B. 59386	10. Which among the numbers have been			
	C. 51232 D. 46393	written in descending order?			
2	What is the product of the squeres of 9 on	A. $^{3}/_{}$ 56%, 0.64 B. 0.64, 56%, $^{3}/_{}$			
з.	6?				
	A. 100 B. 1104	C. ${}^{3}/_{4}$, 0.64, 56% D. 56%, 0.64, ${}^{3}/_{4}$			
	C. 384 D. 2304	11. Find the perimeter of the figure below			
4.	The area of a square is 2704cm ² . Find th	e (Take $\pi = \frac{22}{2}$)			
	measure of one side of the square.				
	A. 52 B. 42				
	C. 51 D. 48				
5.	Find the sum of the L.C.M of 8, 12 and 3	6 48m			
	and the G.C.D of 48, 54 and 18 \wedge 72 B 78				
	C. 18 D. 76	(2			
		0.5111 A 225m B 204m			
6.	A factory produced 30496 bags of cemer	n C. 222m D. 258m			
	Wednesday and 21338 on Thursday. 1	f			
	40860 bags of cement were sold, how man	y 12. Muli bought 8 chairs at Sh. 240 each. He			
	bags of cement remained?	the buying price. What was the profit for			
	C. 59612 D. 56912	each chair?			
		A. Sh. 365 B. Sh. 225			
7.	What is the value of 748673 rounded off t	$_{0}$ C. Sn. 125 D. Sn. 155			
	the nearest thousand? 4 748000 B. 750000	13. A school board meeting started at 8:25 a.m			
	C. 749000 D. 748700	and ended at 1730hrs. How long did the			
		meeting take?			
8.	Find the value of $\frac{3}{4} - \frac{2}{11} \frac{1}{6} + \frac{1}{8} = \frac{1}{11}$	B. 8 hours 05 minutes			
	A. γ_{30} D. γ_{60}	C. 9 hours 05 minutes			
	C. $\frac{97}{120}$ D. $\frac{67}{120}$	D. 10 hours 05 minutes			

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14. Simplify the expressions: 2(3x + 4y) + 3(5x - 6y)A. 21x - 10y B. 18x + 33y C. 21x + 6y D. 21x + 30y

A. 6¹³/₃₀m

15. Asha can weave $2^{1/10}$ m of rope for every one hour. How many metres will she weave in $4^{1/1}$ hrs?

B. 9¹/.m

		5		
	C. 9 ¹ / ₁₀ m	D. 6 ¹ / ₁₀ m		A. 0.245cm C. 0.28cm
16.	Work out: $\sqrt{\frac{196}{576}}$		24.	Sharon bou, shop'
	A. ¹³ / ₂₄	B. ¹⁴ / ₂₄		$2kg$ beans $2^{-1}/_2kg$ sug
	C. ¹⁴ / ₂₆	D. ¹³ / ₂₈		Ikg bar of 1 ¹ / ₂ kg ric
17.	What is the next num 16, 21, 28, 37, A. 85 C. 59	nber in the sequence? 48, B. 61 D. 63		she give the hundred shi A. Sh. 60 C. Sh. 360
18.	Work out: 48693 - 2 A. 97650 C. 96750	21304 + 69361 = B. 96705 D. 97750	25.	Sulei's farm its area in h
19.	Moyes scored ⁷ / ₂₅ ir What percentage ma A. 28% C. 34%	n a Mathematics quiz. urk was this? B. 70% D. 68%		
20.	Draw triangle ABC is angle BAC = 90° an measure of line BC A. 12cm C. 15cm	n which line $AB = 6$ cm, d $AC = 8$ cm. Find the B. 7cm D. 10cm		A. 31.68m ² C. 3.168m ²
21.	Julia earns a basic s month. If she save she spend? A. Sh. 1920 C. Sh. 2880	salary of Sh. 4800 per 40%, how much does B. Sh. 2080 D. Sh. 2680	26.	Which state below?
22.	Work out: \underline{L} \underline{MI} 42 563	3	· 	a b
	A. 383L 167ml C. 383L 670ml	– B. 378L 067ml D. 383L 067ml		A. $a + d = 1$ B. $d + f = 13$ C. $e + f + d$ D. $e + b + d$

23. The circumference of the circle below is 1.54cm. Find its radius *r*.



24. Sharon bought the following items from a shop'

2kg beans @ Sh. 120.00 $2^{1/2}kg$ sugar @ Sh. 80.001kg bar of soap @ Sh. 110.00 $1^{1/2}kg$ rice @ Sh.60.00If she paid using Sh. 1000, how much shouldshe give the shopkeeper to obtain 2 - twohundred shillings notes?A. Sh. 60B. Sh. 40C. Sh. 360D. Sh. 70

25. Sulei's farm measures 240m by 132m. Find its area in hectares.



26. Which statement is true about the figure below?



27. Find the volume of the cuboid below



- C. 4456cm³ D. 3465cm³
- 28. John covered 630km and realised that he used 7 hours to cover the distance. What speed was he travelling at?
 A. 90km/h B. 120km/h
 C. 78km/h D. 84km/h
- **29.** Solve for **x**: $8 + \frac{1}{\sqrt{x}} = 8$ A. 64 B. 12 C. 32 D. 0
- 30. What is the reciprocal of $10^{1}/_{?}$

А.	41/4		B. 4/41	
C.	4/40	-	D. 4 ¹ / ₁₀	

31. The table below shows the number of accidents which occured in the first six months of the year.

Month	No. of accidents
January	120
February	180
March	210
April	170
May	140
June	200

In which two consecutive months did the highest number of accidents occur? A. February, March B. March, April C. January, February D. May, June

32. Yego bought a video machine for Sh. 2,890 and later sold it for Sh. 3,375. How much was the profit?
A. Sh. 395
B. Sh. 460
C. Sh. 485
D. Sh. 435

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- 33. What is 765600cm³ converted into m³?

 A. 0.7656m³
 B. 76.56m³

 C. 0.07656m³
 D. 7.656cm³
- 34. Salt weighing 8.4 tonnes was repacked into 60g packets. How many packets were obtained?
 A. 140000 B. 1400000
 C. 1400 D. 14000
- 35. The following information represents the number of children vaccinated in a certain hospital against Polio in a week.
 Monday -210, Tuesday -300, Wednesday-160, Thursday- 230, Friday -282, Saturday-194 and Sunday -290.
 What was the mean weekly attendance?
 A. 210 B. 238
 C. 311 D. 187
- 36. Which among the set comprises of two odd numbers and two prime numbers?
 A. 5, 12, 13, 19
 B. 15, 27, 43, 47
 C. 15, 21, 37, 49
 D. 51, 53, 9, 12
- 37. A path 8.4m long was drawn to the scale of 1cm to represent 4m. What was drawing length?A. 2.1cm B. 2.2cm

D. 2.4cm

38. Find the sum of *faces*, *edges* and *vertices* of the open cuboid below.

C. 21cm



- C. 25 D. 24 39. Which statement is true?
- A. 0.7 > 0.67C. ${}^{6}/_{8} = {}^{3}/_{4}$ B. $1.42 = {}^{142}/_{1000}$ D. $80\% < {}^{2}/_{3}$
- 40. The sum of two numbers is 148938. One of the numbers is 106421. Find the other number.
 A. 45217
 B. 42517

А.	45217		B. 42517
С.	42175	,	D. 420517



41. Work out; 8kg 430gx 7

A. 56kg	010g	B. 59kg	010g
C. 59kg	310g	D. 58kg	010g

- 42. A class has 48 pupils. If ²/₃ are girls, how many boys were present in a day when 3 of them failed to come to school?
 A. 16 B. 18
 C. 13 D. 21
- 43. What is the smallest number which is divisible by 20 and 36 without a remainder?
 A. 180
 C. 240
 D. 720
- **44.** Which among the following figures is a scalene triangle?



46. How many packets of biscuits measuring 8cm by 6cm by 4cm can be packed in a carton measuring 32cm by 18cm by 12cm?
A. 24
B. 36
C. 48
D. 72

- 47. Faith bought 30 mangoes. She later found that ¹/_s of them were rotten. What percentage of the oranges were good?
 A. 64% B. 75%
 C. 72% D. 80%
- 48. What is 48 written in Roman numerals?A. XIVIIIB. XLVIIIC. XLVIID. XILVIII
- 49. Change 72km/h to m/s

 A. 20m/s
 B. 25m/s

 C. 36m/s
 D. 24m/s
- 50. The graph below shows the temperature rise of a liquid boiled over a period of time.



Α.	5°C	В.	45%
C.	35°C	D.	47%

45.