COMPETENCE BASED CURRICULUM ENDTERM EXAMINATION MATHEMATICS GRADE 8 MARKING SCHEME WORKING AWARD EXPLANATION

No.



	WORKING	AWARD	EXPLANATION
1.	a) -2>-3	B1	
	b) -3<4	B1	
	C) 5>-5	B1	
	ler.co	03	
2.	24=2X2X2X3=2 ³ X3	M1	
	15=3X5		
	16=2X2X2X2=2 ⁴		
	LCM=2 ⁴ X3X5		
	=16X3X5	A1	
	=240		
	nater	02	
3.	a) 7, 2	B1	
	b) 2,3	B1	
	othe	02	
4.	a) $\frac{3}{4} \times 100$	M1	
	=75%	A1	
	=73 <u>7</u> 0	-: 10	ner.co.ke
	h) 1 × 100		
	b) $\frac{1}{4} \times 100$	M1	
	=25%	A1	
		04	
5.	60=2 ² x3x5	M1	
	80=2 ⁴ x5		
	120=2 ³ x3x5		
	GCD=2 ² x5		
	=4x5	A1	
	=20		
		02	
6.	13,467,589	B1	
	Digit 7=7000		
	Seven thousand		
		01	
7.	Fifty five million five thousand and five		All positions correct
	55,000,000		6-6 positions correct
	5000		Less than6 positions
	5	B1 Downl	oad this and other FREE revision materials from https://teacher.co.ke/notes
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		T	
	55,005,005	B1	
		02	Teacher.co.ke
	0 7		
8.	$a.1\frac{3}{4} = \frac{7}{4}$	M1	Must show multiplication and addition to score method
	4 4	A1	
	₄₋₂ 6 20		
	$b.2\frac{6}{7} = \frac{20}{7}$	M1	
		A1	
		04	
	tes		
9.	27,707,807	B1	
	Twenty seven million seven hundred		
	and seven thousand eight hundred		
	and seven	A1	
	2		
	//*:s	02	
	Ē	UZ	
10.	a)ones	B1	
	b)hundredths	B1	
	<u> </u>		
	<u> </u>	02	
	ma 	02	
11.	256=2X2X2X2X2X2X2X2=2 ⁸	04	
	1.1		
12.	a)	B1	
	/ 3/ // /		
	-10 -9 -8 -7 -6		
	Ans =+7	B1	DORGO VO
	ad		HELICO, KE
	oliv Silvinia di S		
	b)	B1	
	-3 -2 -1 0 1		
	Ans =+1		
	c)		
	1 2 3 4 5 6 7 8 9		
	Ans =+9		
		03	
		03	

13. What is the place value of total value of digit 6 underlined below.. 47,397,263,402



Ten thousands $t.v = p.v \times N$ 10000 x 6 =60,000

14. Round off the following numbers to the nearest number indicated in the brackets.

(3mks)

a) 473,678(100)

473700

b) 379(10)

380

c) 38,679(10,000)

40,000

15. Write the following in symbols.

(2mks)

a. Five billion, five million, five thousand and five.

5,005,005,005

b. Write the bowing in words 80,000,045,000 Eighty billion, forty five thousand

(2mks)

16. Express the fol

a) 900

 $= 2^2 \times 3^2 \times 5^2$

(2mks)

b) 300

 $2^2 \times 3 \times 5^2$

(2mks)

(2mks

c) 196 98

2x2x7x7

49

 2^2x7

7 7

1

d) 64

7

(2mks)

2x2x2x2x2

2 2 2

17. Use the number line to perform the following.

a) (+5) - (-2)

(2mks)





b)
$$(+2) + (+3)$$
 (2mks)

c) -7- (-8) (2mks)

18. The G.C.D of two numbers is 12 and their L.C.M is 240. If one of the numbers is 60. Find the other number. (3mks)

$$N = GC.D \times L.C.M$$
 12 x 240 48

19. If
$$x=-2$$
, $7=-6$ and $Z=4$. Find the values of

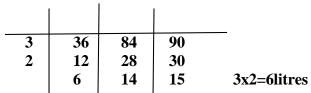
(a) $\frac{4xy}{z}$ (3mks)

$$4x - 2x - 6 = 48 = 12$$

16+(-12) - (-2)

16-12+2=6

20. Three tanks are capable of holding 36, 84 and 90 Litres of milk. Determine the capacity of the greatest vessel which can be used to fill each one of them on exact number of times. (3mks)



21. Test whether the following numbers are divisible by 3.

(4mks)

a) 1257

1+2+5+7=15 divisible by 3

b) 7203





7+2+0+3=12 divisible by 2

22. Three bells ring at intervals of 40 minutes, 45 minutes and 60 minutes. If they ring simultaneous at

6.30 a.m. at what time will they next ring together.

(4mks)

2 40 45 60 2³x3²x5 2 20 45 3 2 10 45 1 360min 3 5 45 1 1hr=6cm 3 5 15 1 5 1 1 360=6hr 60 6hrs					
2 10 45 1 360min 3 5 45 1 1hr=6cm 3 5 15 1 5 1 1 1 360=6hr	$2^3 \times 3^2 \times 5$	60	45	40	2
3 5 45 1 1hr=6cm 3 5 15 1 5 1 1 1 360=6hr		3	45	20	2
3 5 15 1 5 1 1 1 360=6hr	360min	1	45	10	2
5 1 1 1 <u>360=6hr</u>	1hr=6cm	1	45	5	3
5 1 1 1 360=6hr 60 6hrs		1	15	5	3
60 6hrs	<u>360=6hr</u>	1	1	1	5
	60 6hrs				

1230HRS

23. A bookstore had 30816 exercise books which were packed in cartons. Each carton contained 24 exercise books. The mass of an empty carton was 2kg and a full carton 12kg.

How many cartons were there (2mks)

I CARTON = 24bks 30816

30816/24=1284 carto

- a. 1284 x 2568kg
- b. What was the total mass of books alone?

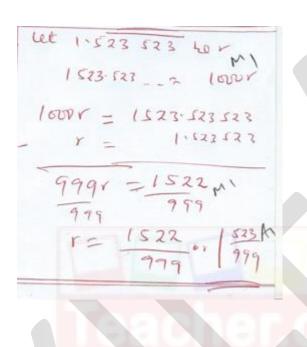
(2mks)

24bks=10kg 30816=?

30816 x 10=12840kg

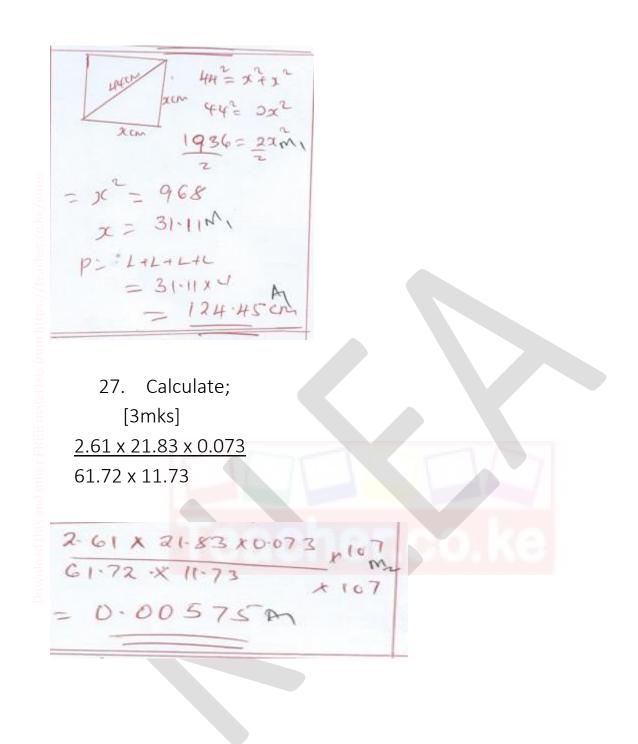


- 24.
- 2/3-two thirds
- 5/8-five eights
- 9/10-nine tenths
- 25. Express 1.523 as a fraction. (3mks)



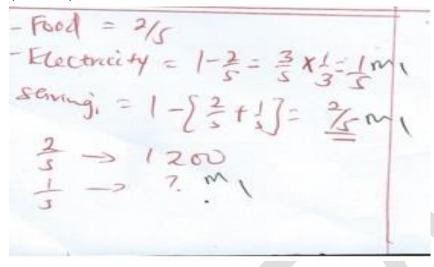
26. The diagonal of a square measures 44cm.Calculate the perimeter of the square. 3mrks



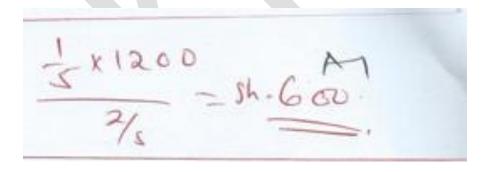


28. Patrick spent 2/5 of his salary on food, 1/3 of the remainder on electricity and saved the rest.

(a). What fraction of his salary did he save? (2mrks).

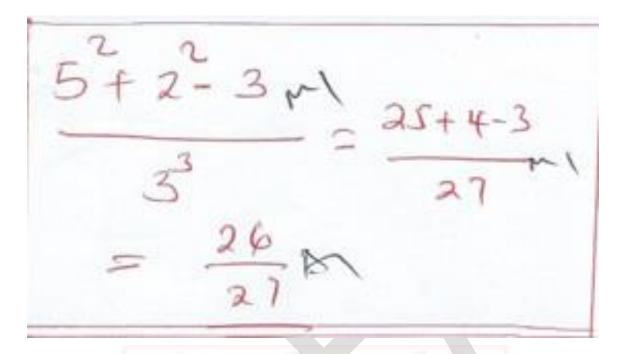


(b). If he spent Sh. 1,200 on food, how much did he spend on electricity? (2Mks)



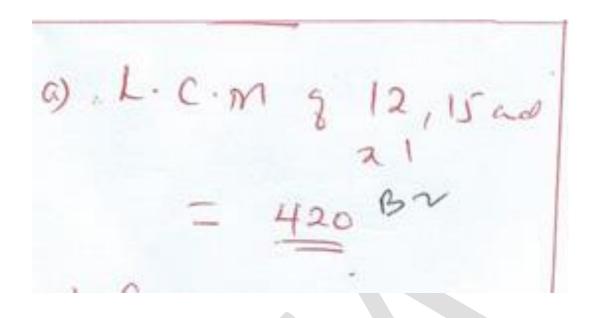
29. If r=5, s=2, and t=3, find the value of; (3mks)





- 30. A farmer has three containers of capacity 12L, 15L and 21L, calculate the capacity of:
- a) The smallest container which can be filled by each one of them an exact number of times(2 Mrks).





(b). The largest container which can fill each one of them an exact number of time.(2 Mks)

