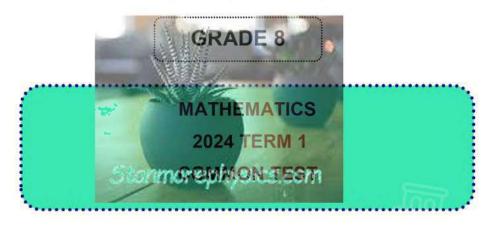
Downloaded from Stanmorephysics.com



VHEMBE WEST DISTRICT

Liberty through Knowledge



MARKS: 50

DURATION: 1 HOUR



Manuslanded of rom Watermeraphysics.com

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

- 1. This Question paper consists of 5 pages including the cover page.
- 2. This question paper consists of 5 questions.
- Answer all questions.
- 4. Number your answers exactly as the questions are numbered in the question
- 5. Read through the questions carefully and make sure that you allocate enough time for each question.
- 6. You may use an approved scientific calculator (Non-programmable and Nongraphical).
- Clearly show ALL the calculations.
- 8. If necessary, round off to TWO decimal places unless otherwise stated.
- 9. Answers alone will not necessarily earn full marks.
- 10. It is in your best interest to write legibly and present your work neatly.

Manualmaded of rom Matenmosaphysics.com

2024 Term 1 Common Test

QUESTION	QUESTION ITEMS	MARK
NUMBER	7	ALLOCATION
	MULTIPLE CHOICE Chassa the letter with the correct answer e.g. 1.1 F	[5 MARKS]
Joon	Choose the letter with the correct answer e.g. 1.1 E The car travels a distance of 80km in 30 minutes? Calculate it's	(1)
1.1	average speed.	
	A. 80 km/h	
	B. 40 km/h	
	C. 160 km/h	
	D. 20 km/h	
1.2	Calculate: 13,78 × 2,11=	(1)
1.2	A. 15,89 morephysics.com	
	B. 29,0758	
	C. 92,7508	
	D. 29,0875	
	A bag was bought for R250 and sold for R350.Calculate the	(1)
1.3	percentage increase.	
	A. 50% B. 25 %	
	C. 40 %	
	D. 20%	
VS 1950	Calculate: [5 - (8- 16) + 5]	(1)
1.4	A2	
	В. 18	
	C. 16	
	D. 13	
4 F	The value of $\sqrt{0.25}$ is	(1)
1.5	A. 0.2	
	B. 0.5	
	C. 0.05	
	D. 0,15	

Downloadsdefrom Manmonaphysics.com

2024 Term 1 Common Test

2	WHOLE NUMBERS	[13 MARKS]
2.1	Write 124 as a product of its prime factors	(1)
2.2	Find the HCF of 24 and 32	(3)
2.3	Find the LCM of 12 and 18	(3)
2.4	Divide R500 between Mulweli and Lloyd in the ratio of 6:4	(3)
2.5	A packet of apples cost R22 excluding VAT. What will the price of the apples be once 14% VAT is added to the price?	(3)
3	INTERGERS	[12 MARKS]
	Calculate the following and show all the steps	
3.1	- 23 - (- 18)	(2)
3.2	2(8-3+4)	(2)
3.3	$3^3 + 4^2 - 5^2$	(3)
3.4	$\sqrt{9+16} + 7$	(2)
3.5	$\frac{-6+3(-4)-3(4)}{(2+3)(-3)}$	(3)
4	COMMON FRACTIONS	[11MARKS]
4.1	Calculate: $10 \div \frac{5}{8}$	(3)
4.2	Simplify: $\sqrt{\frac{25}{49}}$	(2)
4.3	Simplify: $\sqrt[3]{\frac{8}{27}} + \left(\frac{1}{2}\right)^2$	(3)
4.4	Determine the percentage decrease if a chocolate that cost R10 is marked down to R7	(3)

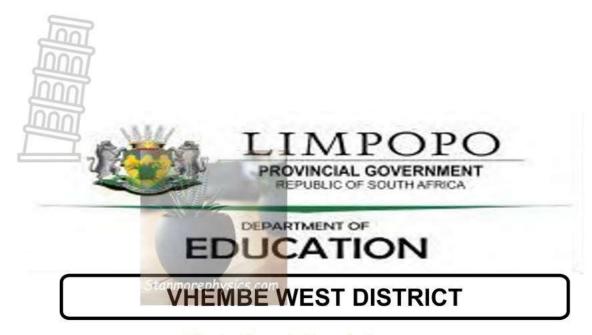
Downloadsdefrom Manmonaphysics.com

2024 Term 1 Common Test

DECIMAL FRACTIONS	[9]
Calculate:	
0,12× 0,06	(2)
0,064 ÷ 0,4	(3)
$(0,7)^3$	(2)
$\sqrt{0,16}$ =	(2)
TOTAL= 50 MARKS	
	Calculate: 0.12×0.06 $0.064 \div 0.4$ $(0.7)^3$ $\sqrt{0.16} =$

Stanmorephysics.com

Downloaded from Stanmorephysics.com



Liberty through Knowledge

GRADE 8

MATHEMATICS
2024 TERM 1
COMMON TEST MEMORANDUM

MARKS: 50

This Memorandum consists of 5 pages including the Cover page.

This is a MARKING GUIDELINE.

Award any correct Mathematical procedures displayed by Learners.

Menselvadedctfrom Matanmasaphysics2ctem 1 Common Test Memo

QUESTION		MARK
1	MULTIPLE CHOICE	ALLOCATION [5 MARKS]
· 10	MIDETIPLE CHOICE	[5 MARKS]
1.1		(1)
1.2	B.	(1)
1.3	C.	(1)
1.4	B.	(1)
1.5	B✓	(1)
2	Stanmorephysics.com OLE NUMBERS	[13 MARKS]
2.1	2×2×31 ✓	(1)
2.2	HCF of 24 and 32 2	(3)
2.3	LCM of 12 and 18 2	(3)

Page 2 of 5

Manual Manual Action Notan manager by Signature 1 Common Test Memo

	IWG OB Gict rom Matterna Gapt By S1052 CTem 1 Common Test Memo	
	∴LCM=2X2X3X3=36 ✓	
2.4	Divide R500 between Mulweli and Lloyd in the ratio of 6:4	(3)
f	6+4 = 10	
Î	Mulweli = $\frac{6}{10} \times R500$	
	=R300 ✓	
	$Lloyd = \frac{4}{10} \times R500$ $= R200 \checkmark$	
2.5	A packet of apples cost R22 excluding VAT. What will the price of the apples be once 14% VAT is added to the price? $= R22 \times \frac{14}{100} \checkmark$	(3)
	$=\frac{^{308}}{^{100}}$ =R3,08 \checkmark Selling price=R22 +R3,08	
	=R25,08 /	
3	VALUE CONTROL OF SECULO	
3	INTERGERS	[12 MARKS]
3	Calculate the following and show all the steps.	[12 MARKS]
32227	Calculate the following and show all the steps.	[12 MARKS]
3.1	\$6.00 St. (\$6.00 St.) And St. (\$6.00 St.)	[12 MARKS]
32000	Calculate the following and show all the steps. - 23 - (- 18)	
32000	Calculate the following and show all the steps. $ \begin{array}{r} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ 2(8-3+4) $	
3.1	Calculate the following and show all the steps. $ \begin{array}{l} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ \begin{array}{l} 2(8-3+4) \\ = (2 \times 8) - (2 \times 3) + (2 \times 4) \end{array} $	(2)
3.1	Calculate the following and show all the steps. $ \begin{array}{l} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ \begin{array}{l} 2(8-3+4) \\ = (2 \times 8) - (2 \times 3) + (2 \times 4) \\ = 16 - 6 + 8 \end{array} $	(2)
3.1	Calculate the following and show all the steps. $ \begin{array}{l} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ \begin{array}{l} 2(8-3+4) \\ = (2 \times 8) - (2 \times 3) + (2 \times 4) \\ = 16 - 6 + 8 \\ = 10 + 8 \checkmark $	(2)
3.1	Calculate the following and show all the steps. $ -23 - (-18) $ $ = -23 + 18 \checkmark $ $ = -5 \checkmark $ $ 2(8-3+4) $ $ = (2 × 8) - (2 × 3) + (2 × 4) $ $ = 16 - 6 + 8 $ $ = 10 + 8 \checkmark $ $ = 18 \checkmark$	(2)
3.1	Calculate the following and show all the steps. $ -23 - (-18) $ $ = -23 + 18 \checkmark $ $ = -5 \checkmark $ $ 2(8-3+4) $ $ = (2 × 8) - (2 × 3) + (2 × 4) $ $ = 16 - 6 + 8 $ $ = 10 + 8 \checkmark $ $ = 18 \checkmark $ $ 3^3 + 4^2 - 5^2$	(2)
3.1	Calculate the following and show all the steps. $ \begin{array}{l} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ \begin{array}{l} 2(8-3+4) \\ = (2 \times 8) - (2 \times 3) + (2 \times 4) \\ = 16 - 6 + 8 \\ = 10 + 8 \checkmark \\ = 18 \checkmark \end{aligned} $ $ \begin{array}{l} 3^3 + 4^2 - 5^2 \\ = 27 + 16 - 25 \checkmark $	(2)
3.1	Calculate the following and show all the steps. $ -23 - (-18) $ $ = -23 + 18 \checkmark $ $ = -5 \checkmark $ $ 2(8-3+4) $ $ = (2 × 8) - (2 × 3) + (2 × 4) $ $ = 16 - 6 + 8 $ $ = 10 + 8 \checkmark $ $ = 18 \checkmark $ $ 3^3 + 4^2 - 5^2$	(2)
3.1	Calculate the following and show all the steps. $ \begin{array}{l} -23 - (-18) \\ = -23 + 18 \checkmark \\ = -5 \checkmark \end{array} $ $ \begin{array}{l} 2(8-3+4) \\ = (2 \times 8) - (2 \times 3) + (2 \times 4) \\ = 16 - 6 + 8 \\ = 10 + 8 \checkmark \\ = 18 \checkmark \end{aligned} $ $ \begin{array}{l} 3^3 + 4^2 - 5^2 \\ = 27 + 16 - 25 \checkmark $	(2)

Monselwardsdictfrom Matenana Banks/SiQS2CTem 1 Common Test Memo

nember	MGCDBCict rom Materiam@GaptBySiQ52CTem 1 Common Test N	emo
	$\sqrt{9+16} + 7$	(2)
3.4	$=\sqrt{25}+7$	
c	0 = 5 + 7	
	n =12 √	
3.5	<u>-6+3(-4)-3(4)</u>	(3)
-	(2+3)(-3)	
Ш		
	$=\frac{-30}{-15}$	
	= 2 •	
4	COMMON FRACTIONS	
		[11MARKS]
4.1	$10 \div \frac{5}{8}$	(3)
	$-\frac{10}{8} \times \frac{8}{8}$	
	$= \frac{10}{1} \times \frac{8}{5}$ $= \frac{80}{5}$ Stanmore physics.com	
	= 14 🗸	
4.2	Simplify:	(2)
	25	
	$ \sqrt{\frac{25}{49}} \\ = \frac{5}{7} \checkmark \checkmark $	
	$=\frac{1}{7}$	
4.3	Simplify: $\sqrt[3]{\frac{8}{27}} + \left(\frac{1}{2}\right)^2$	(3)
	$\begin{pmatrix} 2 & 1 \\ 2 & 1 \end{pmatrix}$	
	$=\frac{1}{3}+\frac{1}{4}$	
	$= \frac{2}{3} + \frac{1}{4} \checkmark$ $= \frac{2}{3} \times \frac{4}{4} + \frac{1}{4} \times \frac{3}{3}$ $= \frac{8}{12} + \frac{3}{12} \checkmark$	
	$=\frac{8}{42}+\frac{3}{42}\checkmark$	
	$=\frac{11}{12}\checkmark$	
.4		(3)
	original amount	(3)
	$=\frac{10-7}{10}\times 100$ \checkmark	
	$=\frac{3}{10}\times 100$	
	$=\frac{10}{300}$	
	$-\frac{1}{10}$	
	= 30% /	

Monselagdedctfrom Nationmosaphysics2ctem 1 Common Test Memo

5	DECIMAL FRACTIONS	[9 MARKS]
-	Calculate:	
5.1.	$0,12 \times 0,06$ $= \frac{12}{100} \times \frac{6}{100}$	(2)
Ĕ	$= \frac{72}{10000}$ $= 0,0072 \checkmark$	
5.2	$ 0,064 \div 0,4 \\ = \frac{64}{1000} \div \frac{4}{10} $ $ = \frac{64}{1000} \times \frac{10}{4} $ $ = \frac{640}{4000} $ $ = 0,16 \checkmark $ Stanmore physics.com	(3)
5.3	$(0,7)^3$ =0,7× 0,7 ×0,7 \checkmark =0,343 \checkmark	(2)
5.4	$ \sqrt{0,16} \\ = \sqrt{\frac{16}{100}} \\ = \frac{4}{10} \\ = 0,4 $	(2)
	TOTAL= 50 MARKS	