

TOM NEWBY SCHOOL EXAMINATION



Class:

Subject	MATHEMATICS		Examiner/s	MISS KLEMP/ MR PHILLIPS/ MRS FOURIE	
Date	5 June 20	18		Total marks	100
Duration	2 HOURS				
Grade	7			Moderator	MRS FOURIE
Special inst Equipment	ructions/	2. 3. 4. 5.	paper and Read thro instruction NO calcul Check the	answer shee ugh each que ns. ators. mark allocat eed to use yo	ame and class on the question et. estion carefully and follow the ion for each question. our protractor, pencil, pen and

This assessment has been compiled using notes and information contained in the Tom Newby School resource material. The marking memorandum has been compiled accordingly. While alternative responses will be given due acknowledgement, the official memorandum will be considered a priority document to ensure uniformity of marking.

Name:	Surname:	Class:
QUESTION 1 – Multiple Choice	ce	[13]
Write the correct letter next to t	he corresponding number.	
1. If the distance between	en two lines never change, they are:	
a) Perpendicular	b) Parallel	
c) Intersecting lines	d) Rays	(1)
2. An isosceles triangle	has:	
a) Three equal sides	c) No equal sides	
b) Two equal sides	d) Not a, b or c	(1)
3. 9 347 879 rounded o	off to the nearest 1 000 is?	
a) 9 348 000	c) 9 348 300	
b) 9 347 380	d) 9 350 000	(1)

4. Choose the factors of 20 from	om the following:	
a) 1; 2; 4; 5; 10; 15; 20		
b) 1; 2; 4; 5; 10; 20		
c) 1; 2; 4; 8; 10; 20		
d) 2; 5		(1)
5. Write $\frac{1}{40}$ as a decimal.		
a) 0,025 c) 0	0,04	
b) 0,25 d) 0	0,4	(2)
6. Write 0,45 as a percentage		
a) 0,45%	b) 4,5%	
c) 45%	d) 450%	(1)
7. 4 + 6 X 2 – 1		
a) 19	b) 15	
c) 11	d) 10	(2)
8. The perimeter of a square	s 36cm. The length of each side is:	
a) 8cm	c) 6cm	
b) 12cm	d) 9cm	(1)
9. The biggest prime factor of	17 is:	
a) 1	b) 17	
c) 34	d) 8,5	(1)
$10.\frac{2}{3}$ of a revolution		
a) 120°	c) 180°	
b) 240°	d) 90°	(2)

Question	1	2	3	4	5	6	7	8	9	10
Answer										

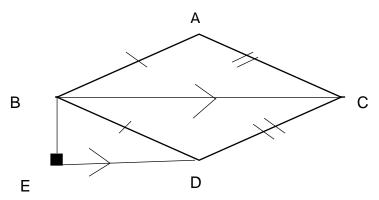
QUESTION 2 [13]

Write down the answers only.

1. What value does the digit 6 have in 329,765?

(1)

- 2. Simplify $\frac{21}{56}$ (1)
- 3. Use the shape below to answer the questions that follow:

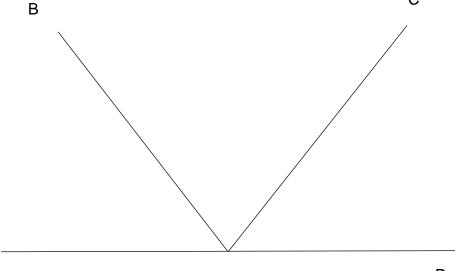


Complete by naming a line:

- a) AB =(1)
- b) BC // (1)
- c) BE _| _____ (1)
- 4. List the composite numbers smaller than 20 that are multiples of 3. (2)
- 5. What is 25% of 3 hours and 20 minutes? (2)

6. Use your protractor to measure the size of:

С



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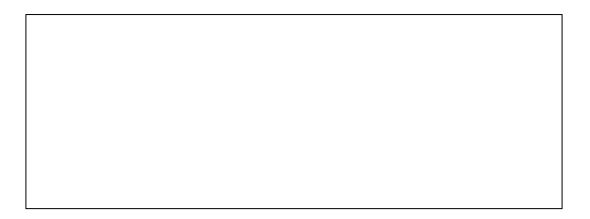
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b) Angle BED 6. Fill in <; > or = a) $\frac{4}{7} \square \frac{3}{4}$ b) $\sqrt{121} \square \sqrt[3]{1000}$ QUESTION 3 1. Write 1 650 as the product of its prime factors. (Use the ladder method)		
a) $\frac{4}{7} \boxed{\frac{3}{4}}$ b) $\sqrt{121}$ $\boxed{\frac{3}{\sqrt{1000}}}$ QUESTION 3 1. Write 1 650 as the product of its prime factors.	(1)	
b) $\sqrt{121}$ $\boxed{}^3\sqrt{1000}$ QUESTION 3 1. Write 1 650 as the product of its prime factors.		
QUESTION 3 1. Write 1 650 as the product of its prime factors.	(1)	
1. Write 1 650 as the product of its prime factors.	(1)	
		[17]
(Use the ladder method)		(3)
2. Fill in the missing numbers in the sequence:		
$\frac{1}{3}$;; 3; 9;		(2)
3. Simplify the following ratio		
24: 36: 60		(1)
24. 30. 30		(1)

4.	$\frac{4}{5} \times 3\frac{1}{3}$		(3)
5.	324,34 + 17,807 - 78,528		(2)
6.	0,072 ÷ 12		(1)
7.	108 Grade 7 learners watched a How many girls watched the matc	The ratio of boy	s to girls was 7:2 (3)

8.		7% interest a year. If I the account after 1 yea		account, what amount (2)
QUES	STION 4			[18]
	Complete the t	able below:		
		Simplified fraction	Decimal	Percentage
hours		а	b	С
75cm	of 5m	d	е	f
				(6)
2.	a) $4\frac{1}{4} + 1\frac{2}{3} - 2$	ollowing and write the a	nswer in its simplest for	(3)
	b) $2\frac{1}{4} \div 1\frac{2}{3}$			(3)

3. A company is planning a dinner for 125 people. The food is expected to cost R85 per person, and the drinks R39 per person. The cost of hiring the venue for the evening is R1 950. Calculate the total cost, for the company to host the dinner. Then calculate the cost per person. (Round off to the nearest Rand). (6)



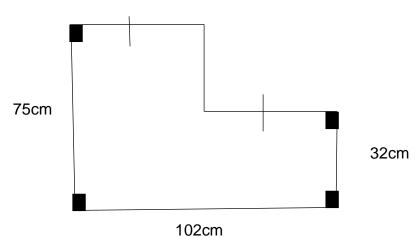
QUESTION 5 [19]

 Soccer balls cost R138,00 each. Joe wants to buy one, but he has only saved R98,55 so far. The shop is prepared to give him a 15% discount.

a) C	alculate	how	much	the	discounted	price	will	be.
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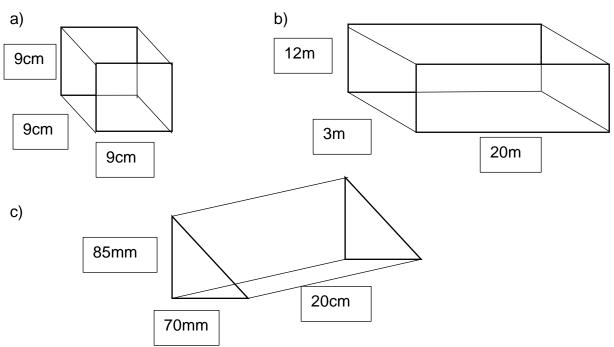
b)	Does Joe have enough money?	If not, how much does he still need?	(4)

2. Use the shape below, to answer the questions that follow:



a)	Calculate the perimeter of the shape.	(2)
b)	Convert the perimeter into meters.	(1)
c)	Calculate the area of the shape.	(3)

3. Calculate the volume of the prisms:



a)		b)	c)	
			(3 x 3 =	= 9)
			- 5 x 5)	- 0)
QUES	STION 6 – (Show ALL c	alculations.)	[20]	
				2)
 QUESTION 6 – (Show ALL calculations.) 1. What number must be added to 23 489 to get 32 530 2. What number exceeds 72 409 by 27 326? 3. 20² - (³√125 x 62) 	(2	2)		
3.	$20^2 - (\sqrt[3]{125} \times 62)$		(3	3)

	a) Construct A\(\sume C\) with AB = 80mm; Angle ABC = 50° and BC = 65m	(4)
	b) Measure angle ACB	(1)
5.	Calculate the answer. Show ALL working out. 2,79 x 7,5	(3)
6.	Romy competed in a cross country race of 15km. She completed only	$\frac{2}{5}$ of the race
	What distance did Romy run?	(1)

7.	To open a coke bottle you have to turn the top 3 full turns.			
	a)	Through how many degrees do	you have to turn the top in order to	open the
		bottle?		(2)
	b) What fraction would 270° be of the total number of degrees the top has to rotate			
	-,	in order to open the bottle?		(2)
		от астана		(-)
			7	
			┙	

Total: 100