



## GRADE 10 MATHEMATICAL LITERACY MARCH TEST

### QUESTION 1

- 1.1 Mrs. Jones teaches 8 Mathematical Literacy classes with 20 learners each. 10% of her learners are boys.

1.1.1 How many girls are there in her class? (2)

1.1.2 How many boys are there in her class? (2)

1.1.3 How many boys are there in all her classes? (2)

- 1.2 Mrs. Jones gave her learners a test out of 50 and recorded the results below. The percentages shown are the average for each of the groups in their respective class.

| Class | 75-80% | 50-75% |
|-------|--------|--------|
| A     | 20%    | 30%    |
| B     | 10%    | 50%    |
| C     | 10%    | 10%    |

1.2.1 How many boys are there in Class A? (2)

1.2.2 How many girls are there in Class B? (2)

1.2.3 How many girls are there in Class C? (2)

- 1.3 The Grade 10 sports coach needs to order PE shirts for all 200 Grade 10s. He sees the following ad:

#### CHEER T-SHIRT

Buy 100 shirts (any size) @ R60.00 per shirt.  
 Next 100 shirts (any size) @ R50.00 per shirt.  
 Any number of shirts after that (any size) @ R40.00.

140 Church Street, Randburg 1911



**SPORTSWEAR**

SPORTSWEAR

1.3.1 What is the name of the company with the special? (2)

1.3.2 Where is the store located? (2)

1.3.3 How many shirts can he buy for R4000? (4)

1.3.4 How many shirts can he buy for R4000 if he buys 100 shirts? (2)

- 1.3.5 The coach orders the shirts and receives another 10% discount for the size of the order. Calculate the new price.

(8)  
(4)

### QUESTION 2

Jane wants to visit her grandmother during her school holidays. She will have to take a train as her parents are both working. Her grandmother lives 100km away.

2.1 If the bus travels at 100km/h throughout her trip, how long will it take her to reach her grandmother? (2)

2.2 The bus is only running at 75% of its normal speed, how long will it take her to reach her grandmother? (2)

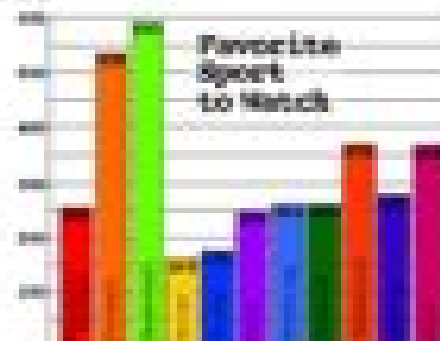
2.3 The bus leaves at 08:00 but the bus station is 10km away, how long will it take her to reach her grandmother? (2)

2.4 If the bus is only running at 75% of its normal speed, how long will it take her to reach her grandmother? (2)

2.5 Jane's parents decided to pay for 50% of her ticket price. If the ticket price is R100, how much will she pay? (2)

### QUESTION 3

The graph below shows the results of a survey done at the school about what is the favourite sport to watch amongst learners.



3.1 How many learners are there in the school? (2)

3.2 Which sport is the most popular? (2)

3.3 Which sport is the least popular? (2)

3.4 If 10% of the learners who prefer Football are girls, how many boys prefer Football? (2)

# Grade 10 Math Lit Caps Exemplar Paper

**G Thomas**



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web linear algebra unit 2 matrix transformations about this unit matrices can be used to perform a wide variety of transformations on data which makes them powerful tools in many real world applications for example matrices are often used in computer graphics to rotate scale and translate images and vectors

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web orthogonality of the transformation matrix  $q$  as in the two dimensional case the transformation matrix is orthogonal  $q^T q = I$  this follows from  $\begin{pmatrix} 1 & 5 \\ 11 & 15 \end{pmatrix}$  example consider a cartesian coordinate system with base vectors  $e_i$  a coordinate transformation is carried out with the new basis given by  $\begin{pmatrix} 3 & 3 \\ 2 & 3 \\ 3 & 1 \\ 2 & 3 \\ 3 & 1 \\ 3 & 2 \end{pmatrix}$

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web coordinates of  $v$  the standard coordinates are  $v_3$  are the  $b_1$   $b$  are assumed if no other basis is speci ed this means  $v_3 e_1$

Let  $\{b_1, b_2, \dots, b_n\}$  be a basis of  $\mathbb{R}^n$  then the matrix  $S$  which contains the vectors  $b_k$  as column vectors is called the coordinate change matrix

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web the vector  $b$  is parallel to  $a$  and points in the same direction if  $\alpha > 0$  for  $\alpha < 0$  the vector  $b$  is parallel to but points in the opposite direction antiparallel if we multiply an arbitrary vector  $a$  by the inverse of its magnitude  $\frac{1}{|a|}$  we obtain a

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web sep 17 2022 consider the matrix transformation  $T: \mathbb{R}^2 \rightarrow \mathbb{R}^2$  that assigns to a vector  $x$  the closest vector on horizontal axis as illustrated in figure 2.6.20 this transformation is called the projection onto the horizontal axis

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web and now that we know what  $D$  is we can now solve for  $A$  we can now solve for the transformation matrix with respect to the standard basis so to do that we have to figure out  $C$  and  $C^{-1}$  so  $C$  remember  $C$  is just the change of basis matrix and all that is is the basis vectors it's just a matrix with the basis vectors in the column

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web a translation by a nonzero vector is not a linear map because linear maps must send the zero vector to the zero vector however translations are very useful in performing coordinate transformations i'll introduce the following terminology for the composite of a linear transformation and a translation definition let  $A$  be a real matrix

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web any vector  $v$  represented in  $B$  can be transformed to a representation in  $C$  as follows under the transformation of basis

notice that the superscript on the transformation matrix  $m$  and the subscript on the coordinate vector  $v$  are the same and seemingly cancel leaving the remaining subscript

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web jan 31 2023 how to find coordinate vector of a linear transformation ask question asked 8 months ago modified 8 months ago viewed 282 times 2 i m trying to find the coordinate vector of the following linear transformation  $T: \mathbb{R}^3 \rightarrow \mathbb{R}^3$  in the following basis  $\beta = \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$

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