$\qquad$

## QUESTION 1

The following letter cards have been laid face down on a table. One card is chosen at random.

$\square$
1.2 Calculate the probability that the card chosen will not be an T.
(3)
1.3 Calculate the probability that the card chosen is an E or an O .
(1)
1.4 Calculate the probability that the card chosen is a S and a L.

## QUESTION 2

During December, Smarties sold cartons of smarties that only contain red and green smarties. The specific carton that you bought contain 15 green and 21 red smarties.

2.1 Draw a tree diagram to represent all the possible outcomes for the colours of the first 2 smarties that you eat.
$\square$
2.2 Determine the probability that the first 2 smarties you eat will be one of each colour.
$\square$

## QUESTION 3

In a group of 85 learners, 48 likes M\&M's, 43 likes Astros and 12 do not like either of these.

3.1 Draw a Venn diagram to illustrate this information and to determine how many learners like M\&Ms and Astros. Let $x=$ number of learners that like M\&Ms and Astros.
(6)

S1904
)
1904
3.2 Determine the value of $x$
$\square$
3.3 Determine the probability that if a learner is chosen at random, that he/she:

## a) Only likes M\&Ms.


b) Does not like Astros.

c) Likes M\&Ms or Astros.
$\square$
(2)

## VRAAG 4

It is given that $P(A)=0,22, P(B)=0,6$ and $P(A$ or $B)=0,59$.
4.1 Calculate $P(A$ and $B)$
$\square$
(3)
S1904

Events A and B are mutually exclusive. If $P(A)=0,71$ and $P(B)=0,13$ :
$\square$
4.3 Calculate $P(A$ and $B)$
$\square$
(1) S1905

Events A and B are complimentary. If $P(A)=0,71$ :


Total: 40 Marks

