



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

COMPUTER APPLICATIONS TECHNOLOGY

OPTIONAL SPEED/ACCURACY PAPER

FEBRUARY/MARCH 2012

MEMORANDUM AND SPEED COUNT

MARKS: Not applicable

This memorandum consists of 5 pages.

OPTIONAL QUESTION: SPEED/ACCURACY

The maximum key depressions for this question = 3 500 depressions for 70 wpm in 10 minutes.

It is strongly recommended that the Edutrap Speed Marking Software be used to mark the speed/accuracy question.

Where the Edutrap Speed Marking Software is not used, use the information below.

To determine a speed, mark according to the following marking schedule:

The same example is on page 36 of the Subject Assessment Guidelines (January 2008):

Number of depressions keyed in in ten minutes	= 2 125
Gross words (number of depressions keyed in, divided by 5) (5 depressions = one word)	= $2\,125 \div 5 = 425$
Less number of words with errors (i.e. 7 words with errors)	= -7 from 425
Equals net number of words without errors	= 418
Divided by the time (ten minutes)	= $\div 10$
Equals net correct words per minute	= 41,8 wpm

Additional notes:

If any words are omitted or inserted, then every 5 depressions of the omission or insertion counts as one word, e.g. if the following words were omitted it would be counted as:

The |quick| brow|n fox| jump|s
1 | 2 | 3 | 4 | 5 |words

A capital letter counts as two depressions.

NOTE: The optional speed/accuracy question should only be marked in cases where the candidate could reach 20 wpm or more (1 000 depressions or more).

CONTENT							Upper case/ line spaces	Depressions	Total depressions
I have always had a zoo in my head. Ever since I was five years old, I wanted to be a zookeeper. As a little boy, my imagination ran wild. I thought about the kinds of homes I would need to build for my pet dragon, giant panda and green gorilla.							3	59	62
							2	60	124
							2	60	186
							0	61	247
							0	8	255
							2	0	257
When I was eight, we moved into a house at the top of a steep hill, overlooking a small river. A forest encroached on our backyard. In that forest I discovered a menagerie more awesome than anything my imagination had conceived. I searched for mole holes and discovered lizards. I learned that fireflies glow at night. I listened to the whisper of bats cleaning the air. As my world of animals gained realism, it also gained depth. For example, my explorations filled me with questions about our own cats. There was the respected Ginny, graceful Tippy Toes and big Bandit. I watched them with new wonder and tried to understand their actions. With understanding, my love for them matured and deepened. They changed from being animated teddy bears to responsive companions. My early wonder for fantastic creatures grew into a love for real animals. I saw their world as greater and richer than any I had invented in my head. I came to understand that it was I who was housed in a mammoth zoo.							2	62	321
							1	61	383
							2	56	441
							1	55	497
							1	59	557
							1	60	618
							1	63	682
							1	62	745
							1	60	806
							5	59	870
							1	61	932
							1	60	993
Not so long ago, I realised that as a child I had engaged in primitive self-directed inquiry. This is not different to that sanctioned by many science and other teachers. My observations of animals generated questions. These questions led me to look for answers. By guiding myself, my investigations were unstructured. If these queries had been voiced in class, an experienced science teacher might have							0	54	1047
							1	63	1111
							1	59	1171
							2	54	1227
							1	57	1285
							2	0	1287
							3	61	1351
							1	59	1411
							1	56	1468
							1	62	1531
							1	51	1583
							1	61	1645
							0	59	1704

20 wpm

CONTENT						Upper case/ line spaces	Depressions	Total depressions
suggested that I form a hypothesis. This is a question that can be answered by observation. Then the teacher might have helped me think about how I could go about collecting information. We would look ahead and figure out ways of ruling out different interpretations. Then we could be sure we understood what was happening. Afterwards, we would interpret this information together and present the conclusions clearly. We would have conducted an experiment.						2	61	1767
						1	61	1829
						1	54	1884
						1	57	1942
						1	61	2004
						1	56	2061
						0	52	2113
						1	60	2174
						2	0	2176
						2	62	2240
You may think that no eight-year-old could endure that. They can. When children explore their world, they continually hypothesise and experiment. The difference is whether they are given guidance to think critically about their observations.						1	58	2299
						1	60	2360
						0	51	2411
						0	13	2424
						2	0	2426
Of course the experiment must be simple and the interpretation should be straightforward and concrete. Although the child will need supervision, he or she should be allowed to do as much as possible. The more in control the child feels, the more he or she will be interested and be empowered.						1	63	2490
						1	60	2551
						0	60	2611
						1	60	2672
						0	51	2723
I was in college before I learned to think critically. It was only at graduate school when I truly learned to conduct experiments. This was so late. Fortunately none of my classmates had learned any earlier. How easily I would have been left in the dust if they had been taught these inquiry skills when they were first ready and so willing to learn them.						2	0	2725
						3	63	2791
						1	56	2848
						2	56	2906
						2	61	2964
						0	60	3085
						0	58	3090
						0	5	3088
						2	0	3090
						2	57	3151
Although I would not learn these skills until after high school, I was fortunate that my childhood adventures and discoveries had taught me to love animals and nature. My						1	57	3209
						1	58	3268

CONTENT							Upper case/ line spaces	Depressions	Total depressions
parents and books answered what questions they could. The							1	59	3328
more I learned, the more I wanted to know. The more I							4	55	3387
understood animals, the more I appreciated and loved them.							1	60	3448
The more I saw how some people mistreat animals, help							2	53	3503