

NORMAN HENSILWOOD HIGH SCHOOL EXAMINATIONS



QUESTION 1

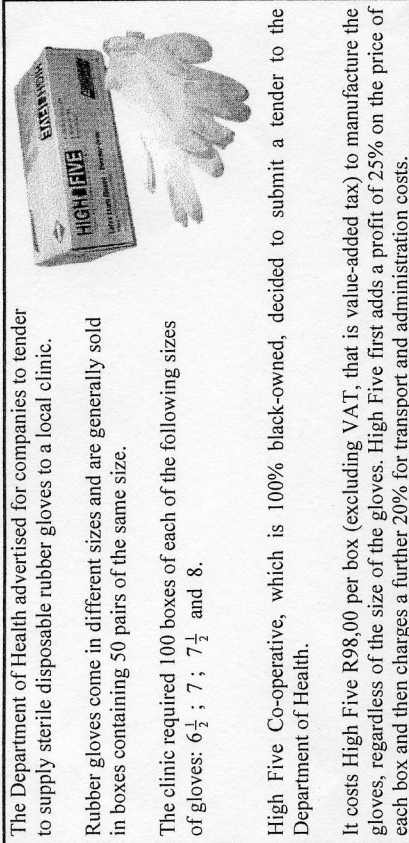
The Department of Health advertised for companies to tender to supply sterile disposable rubber gloves to a local clinic.

Rubber gloves come in different sizes and are generally sold in boxes containing 50 pairs of the same size.

The clinic required 100 boxes of each of the following sizes of gloves: 6½ ; 7 ; 7½ and 8.

High Five Co-operative, which is 100% black-owned, decided to submit a tender to the Department of Health.

It costs High Five R98,00 per box (excluding VAT, that is value-added tax) to manufacture the gloves, regardless of the size of the gloves. High Five first adds a profit of 25% on the price of each box and then charges a further 20% for transport and administration costs.



1.1 TABLE 1 on ANNEXURE A shows High Five's format for calculating the selling price of their gloves.

Use the spaces provided on TABLE 1 on ANNEXURE A to determine the values of items A, B, C, D, E, F and G.

(12)

Show ALL working details in Column 2 and enter the amounts in Column 3.

1.2 The Department of Health uses the following formula to make decisions about which company will be granted the tender:

$$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) + 2,5^*$$

where:

P_s = points scored for the tender

P_t = value of the tender under consideration (in rand)

P_{min} = lowest acceptable tender value (in rand)

* 2,5 is only added in the case of a 100% black-owned business.

The lowest acceptable tender value (P_{min}) for the rubber gloves is R56 000.

Use the total selling price (P_t) calculated in TABLE 1 to calculate P_s , the number of points scored by High Five Co-operative.

(3)

DATE	15 JUNE 2011
GRADE	12
SUBJECT	MATHEMATICAL LITERACY
TIME	2 HOURS
MARKS	100
EXAMINER	LA JANSEN
MODERATORS	J CROSSWELL, E DANIELS

Checked
10.6

