

Exam Practice

DBE NSC - Feb/Mar 2017 - Paper 2 - Question 3

Jumanda's three friends from Angola will visit him in Upington. They plan to stay at a resort that charges R850 per unit per day for accommodation.

The following exchange rates may be used:

- Kz100 000 = R9 173,05 and
- \$1 = Kz 169,27344

[Source: Coinmill.com, 2 June 2016]

Use the information above to answer the questions that follow.

- 3.3.1 Determine (in Kz) the equal amount that EACH of the friends must contribute towards the accommodation per day. (5)
- 3.3.2 The average monthly disposable salary (ADMS) in Angola is \$1 760,41 and in South Africa it is R16 500.
- The average monthly rental cost for an apartment in Angola is Kz145 990, whereas a similar apartment in South Africa costs R4 430 per month.
- One of the friends stated, "The average rental cost of an apartment in Angola, expressed as a percentage of the ADMS, is double the percentage of a similar apartment in South Africa.
- Verify, showing ALL calculations, whether this statement is valid. (7)

Answers

| | |
|-------|---|
| 3.3.1 | $\text{Accommodation per person} = \frac{R850}{3} \checkmark$ $= R283,33 \checkmark$ $\text{Kz}100\ 000 = R9\ 173,05$ $\text{Amount Kwanza} = \frac{R283,33}{R9\ 173,05} \times \text{Kz}100\ 000 \checkmark$ $\approx \text{Kz } 3\ 088,76 \checkmark$ <p style="text-align: center;">OR</p> $R9\ 173,05 = \text{Kz}100\ 000$ $R1 = \frac{100\ 000}{9\ 173,05} \checkmark$ $= \text{Kz } 10,9014995$ $\therefore R850 = \text{Kz } 10,9014995 \times 850 \checkmark$ $\approx \text{Kz } 9\ 266,27 \checkmark$ $\text{Cost per person} = \frac{9\ 266,27}{3} \checkmark$ $\approx \text{Kz } 3\ 088,76 \checkmark$ |
| 3.3.2 | $\text{\$}1 = \text{Kz } 169,27344 \checkmark$ $\text{Average disposable salary} = \text{\$}1\ 760,41 \times \text{Kz}169,27344/\text{\$}$ $\approx \text{Kz } 297\ 990,66 \checkmark$ <p>Angola:</p> $\text{Rent as a \% of income} = \frac{145\ 990}{297\ 990,66} \times 100\% \checkmark$ $= 48,99\% \checkmark$ <p>South Africa</p> $\text{Rent as a \% of income} = \frac{4\ 430}{16\ 500} \times 100\% \checkmark$ $= 26,85\% \checkmark$ <p style="text-align: center;">✓</p> <p>Not valid. It is much cheaper in SA but not double.</p> |