

# MAPS AND MAP WORK

## 1. 1996 Q 1

Study the map of Ithanga(1:50,000 sheet 135/4 ) provided and answer the following questions.

- a) i) Give a six – figured grid reference for the trigonometrical station to the south – east of the area covered by the map (1 mark)

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- ii) What is the bearing of the school at Kamwiendei village from the church at Riakanau?

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- iii) Measure the length of the dry weather road (E 625), from the junction at karaba shops to where it ends at Riakanau village. Give your answer in kilometers (2 marks)

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- iv) Calculate the area of Tebere B in the northern part of the map. Give your answer in square kilometers (2 marks)

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- b) Student from one of the schools in the area covered by the map carried out a field study on the physical features and economical activities found in the area.

- i) Name two types of natural vegetation they are likely to have identified (2 marks)

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- ii) Citing evidence from the map, name three economic activities the students are likely to have identified during their study (3 marks)

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iii) Citing evidence from map, name two methods the students are likely to have used to cross River Tana. (2 marks)

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c) Describe the drainage of the area covered by the map. (4 marks)

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d) Describe the distribution of settlements in the area covered by the map (3 marks)

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e) Draw a rectangle 15cm by 10cm to represent the area west of Easting 20 and south of northing 00. On the rectangle, mark and name:

- i) The provincial boundary
- ii) Ithanga hills
- iii) The sisal plantation to the south west of the area (4 marks)

**2. 1997 Q 6**

Study the map provided (Kericho 1:50,000 sheet 117/4) and answer the following questions.

a) (i) What feature is found at grid reference 691700? (2 marks)

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(ii) Name two man-made features found in Grid square 6269. (2 marks)

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- (iii) Measure the length of the dry weather road E222 from the junction at Kipchimchim (grid reference 530640) to the junction with all weather road in the grid square 5863, Give your answer in kilometers (2 marks)

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- b) Using a scale of 1cm to represent 50m, draw a cross-section from grid reference 570670 to grid reference 620670 and name the following:  
(i) A river  
(ii) A motorable track  
(ii) Houses (6 marks)

- c) Describe the drainage of the area to the northwest of the Kericho-Lumbwa all weather road. Cite examples of the drainage patterns identified. (6 marks)

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- d) Apart from the forests, name two other types of vegetation found in the area covered by the map. (2 marks)

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- e) Students of a school in Kericho used the map of Kericho to prepare for a field study on tea growing in the area.  
i) Citing evidence from the map, state three conditions that favour tea growing in the area. (3 marks)

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(ii) State three methods the students may have used to collect information during their study. (3 marks)

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**3. 1998 Q 6**

Study the map of Mariakani (1:50,000 sheet 197/4) provided and answer the following questions

a) (i) What type of map is Mariakani sheet?

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(ii) From the marginal information, identify the two districts covered by the map

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(iii) Calculate the area of Mavirivirini sub- location. Give your answer in square kilometers.

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b) Citing evidence from the map, explain three factors that favour cattle rearing in Mariakani area.

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(c) Citing evidence, state three functions of Samburu town

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(d) Some students are required to carry out a field study on water supply in south Samburu Division.

(i) State four problems they are likely to encounter in administering questionnaires to residents of the area.

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(ii) Measure the length of a water pipeline proposed by the students from existing line at grid reference 303796 to Mwandoni settlement at grid reference 325720. Give your answer in Kilometers.

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(iii) Calculate the vertical rise (amplitude of relief) of the proposed pipeline.

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**4. 1999 Q 6a-e**

Study the map provided. (Yimbo 1:50,000 sheet 115/1) and answer the following questions

(a) (i) What is the bearing of the air photo principal point in the grid square 3274 from the trigonometrical station in the grid square 2778?

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(ii) Give the latitudinal extent of the area covered by the map

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- (b) Draw square 15 cm x 15 cm to represent the area bounded by the Easting 12 and 20 and the Northings 90 and 99

In the square you have drawn, mark and label

- (i) Busia District
- (ii) Lake Sare
- (iii) All weather loose surface road

- (c) Name two features shown on the map that indicate that the area receives low rainfall.

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- (d) Citing evidence from the map, state three economical activities carried out in the area covered by the map.

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- (e) Describe the relief of the area covered by the map

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**5. 2000 Q 6.**

Study the map of Mathioya 1: 50,000 provided and answer the following questions

- (a) (i) What is the bearing of the cattle dip at grid reference 716386 from the coffee factory at grid reference 740377?

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- (ii) Give the approximate height of Kigoini dam

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- (iii) Measure the length of the district boundary in the Aberdare forest from Western margin of the map to the eastern edge of the forest  
(Give your answer in kilometers)

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- (b) Describe the drainage of the area covered by the map

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- (c) Draw a sketch section along northing 42 from grid reference 720420 to grid Reference 760420 on the section mark and name

- (i) A road
- (ii) A forest
- (iii) A river

- (d) Describe the distribution of settlements in the area covered by the map

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- (e) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing

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- (ii) Apart from agriculture, name two other economic activities carried out in the area covered by the map

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**6. 2001 Q 6a-d**

(a) Study the map of Kijabe 1: 50,000 provided and answer the following questions:

(i) What is the appropriate height of the top of Kijabe hill?

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(ii) Measure the length of Nairobi – Naivasha railway line from landhies (grid Reference 257978) to the level crossing near Kijabe station ( grid reference 308984). Give your answer in kilometers.

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(iii) What relief feature on the map may have created problems in the construction of the railway line?

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(b) Describe the drainage of the area covered by the map

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(c) Explain how relief has influenced the distribution of settlement in the area covered by the map.

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(d) Citing evidence from the map, state four economic activities carried out in the area covered by the map.

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**7. 2002 Q 6a-c**

Study the map of Kisumu East (1:50000) provided and answer the following questions.

i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992.

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ii) Measure the length of the all – weather road (bound surface) b2 /1 from the junction at grid reference 947911 to the edge of the Map, grid reference 947667.(Give your answer in kilometers)

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iii) On a rectangle, mark and name:

b) i) Describe the relief of the area covered by the map.

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ii) Explain how relief has experienced settlement in the area covered by the map.

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c) Citing evidence from the map, give three economic activities carried out in the area covered by the map other than crop growing.

**Economic Activities**

**Evidence**

Quarrying	.....
Processing	.....
Transportation.	.....

**8. 2003 Q 6**

Study the map of Menu (1: 50,000, sheet 108/3) provided and answer the following questions

a) i) What is the height of Njorivola hill at grid square 4117

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ii) Give two methods used in representing religion the map extract

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iii) Measure the bearing of the peak of Kanjai hill form the peak of Kieru hill to the north east of the map extract.

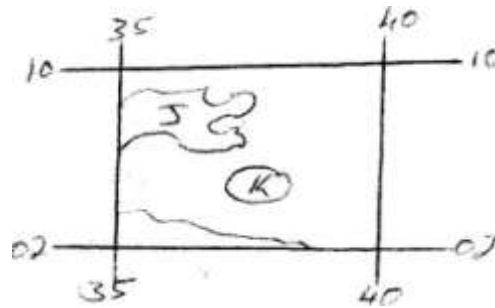
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b) Citing evidence from the map, explain:

(i) Two factors trading in the area covered by the map

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c) The rectangle (in the question paper) represents the area in the map extract bounded by Easting 35 and 40 and Northing 02 and 10. Use it to answer the questions that follow.



Identify the name the features marked;

- J- .....
- K- .....
- L- .....

(i) Measure the length of the road they followed from the junction at grid reference 442128 to the junction at Gitoro, grid reference 478069. Give your answer in kilometres

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(ii) Apart from the forest, name two other types of natural vegetation they observed along the route

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(iii) State two methods they may have used to collect data while at the sawmill

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iv) State three follow- up activities they may have been involved in after the field study.

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**9. 2004 Q 6a-c**

Study the map of Kipkabus (1:50,000, sheet 104/4 provided and answer the following questions.

a) (i) Give the latitude and longitude of the South west corner of the map extract.

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(ii) What is the area of Tingwa Hill Forest? (2 marks)

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b) (i) Name the planted vegetation in the area covered by the map (1 mark)

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(ii) Explain how relief and human activities have influenced the distribution of natural vegetation in the area covered by the map (4 marks)

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c) i) Using a vertical scale of 1 cm to represent 100 meters draw a cross section along the line marked X-Y (5 marks)

ii) On the cross section mark and label the following:-

A steep slope

A hill

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A river valley

(4 marks)

iii) Calculate the vertical exaggeration of the cross section

(2 marks)

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**10. 2005 Q 6a-c**

Study the map of SILALONI (1:50,000) provided and answer the following questions

(a) (i) Convert the ratio scale of the map extract into a statement scale (1 mark)

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(ii) Give the six – figure grid reference of the point where the power line crosses the Samburu – Silaloni dry weather road (1 mark)

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(iii) Give three types of natural vegetation shown in the area covered by the map (2 marks)

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(b) (i) Identify two sources of water in the area covered by the map (2 marks)

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(ii) Using evidence from the map, suggest four functions of Tsangatsini township. (4 marks)

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- (c) Using a vertical scale of 1 cm to represent 20m:  
(i) Draw a cross section from grid reference 400915 to 500915 (3 marks)

(ii) On the cross section, mark and name the following:

- ❖ A river
- ❖ A road
- ❖ A quarry

(iii) Calculate the vertical exaggeration of the section you have drawn (2 marks)

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**11. 2005 Q 6.**

Study the map of Nyahururu, 1: 50,000 (sheet 105/4) provided and answer the following questions

- (a) (i) Give the six figure grid of the junction where the road to Ndaragwa (D 388) meets with the road to Nyeri & Nanyuki (B5) (2 marks)

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- (ii) Calculate the bearing of point X from point Y (2 marks)

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- (iii) Name three physical features found along the line XY (3 marks)

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(b) (i) Draw a square 12 cm by 12 cm to represent the area enclosed by the Easting 10 and northing 10 to the North-eastern part of the map (1 mark)

(ii) On the square, mark and label

- The main river (1 mark)
- All weather loose surface road (1 mark)
- A forest (1 mark)

c) Citing evidence from the map, explain two

(i) Physical factors that may have influenced the location of Nyahururu town (4 marks)

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(ii) Factors that favour saw milling in the area covered by the map (4 marks)

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**12. 2007 Q 6**

Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions

(a) (i) What is the bearing of the peak of Mwatunga hill in grid square 3214 from the water tank in grid square 2619? (2 marks)

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(ii) What is the length in kilometers of the section of the Mwatate – Voi railway line in the south – eastern part of the map? (2 marks)

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- (b) Draw a rectangle measuring 16cm by 12 cm to represents the area enclosed by the Eastings 24 and 40 and Northings 20 and 30 (1 mark)

On the rectangle, mark and name the following features:

- Mgange hills (1 mark)
- A rock out crop (1 mark)
- All weather road, bound surface (1 mark)
- River Ruhia (1 mark)
- Ronge forest (1 mark)

- (c) Using evidence from the map, explain three factors that have favoured the establishment of the Teita sisal Estates in the Southern part of the area covered by the map (6 marks)

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- (d) (i) Describe the distribution of settlement in the area covered by the map (5 marks)

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(ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming (4 marks)

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**13. 2008 Q 6**

Study the map of Kericho 1:50,000 provided and answer the following questions

a) i) Give the longitudinal extent of the area covered by the map. (1 mark)

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ii) Convert the scale of the map into a statement scale. (2 marks)

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iii) What is the approximate height of the hill on the grid square 6770? (2 marks)

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iv) Calculate the area of Kericho municipality. Give your answer in square km. (2 marks)

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b) i) Give three types of natural vegetation found to the west of easting 53. (3 marks)

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ii) What is the bearing of the trigonometrical station at grid reference 554668 from the factory at grid reference 610626. (2 marks)

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iii) Identify three forms of land transport found to the north of northing 68 and west of easting 53? (3 marks)

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c) Describe the distribution of settlements in the area covered by the map. (4 marks)

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d) Citing evidence from the map, explain three factors that favour the establishment of tea estates in the area covered by the map. (6 marks)

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**14. 2009 Q 6.**

Study the map of Belgut 1:50000 sheet (117/3) provided and answer the following questions.

a) (i) Name the three districts erased by the all-weather road bound(surface) in the north-western part of the map extract.

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(ii) Using the marginal information, give the magnetic variation of the area when the map extract was drawn.

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(iii) Measure the shortest distance along the loose surface road from the junction at murumbasi (grid reference 286548) to the school at Chebirbei (grid reference 344518). Give your answer in kilometres.

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(iv) What is the approximate height of the papyrus swamp to the north-east of farm institute (grid square 3750).

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b) Describe the characteristics of the long profile of river yurithi.

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c) Describe the relief of the area covered by the map.

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**15. 2010 Q 6**

Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.

(a) A pipeline is to be laid from Lake Victoria along the line marked **X-Y**.

(i) What is the length of the piping to be used? (Give your answer to the nearest 100 metres). (2 marks)

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(ii) Calculate the bearing of point Y from point X (2 marks)

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(iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy sections. (Give your answer in square kilometers). (2 marks)

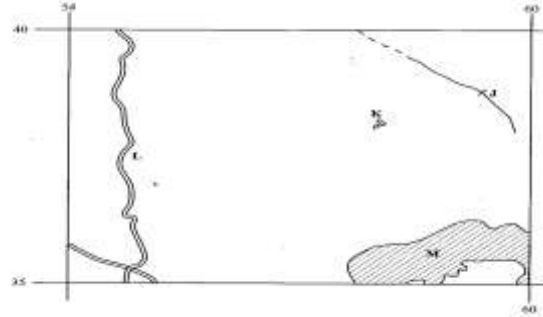
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(b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and Northing's 35 and 40. Identify and name the features marked J, K, L and M. (4 marks)



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(c) (i) Explain **three** factors which have influenced the distribution of settlements in the area covered by the map. (6 marks)

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(ii) Citing evidence from the map, give **two** agricultural activities carried out in the area covered by the map. (4 marks)

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(d) Describe the drainage of the area covered by the map. (5 marks)

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**16. 2011 Q 6**

Study the map of Nkubu (1:50000) sheet 122/1 provided and answer the following questions.

a) i) Give the latitudinal and longitudinal position of the north east corner of the map extract. (2 marks)

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ii) Give two methods used to represent relief on the map. (2 marks)

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iii) What is the relief feature found at the top of Kirui hill within Mt. Kenya forest? (1 mark)

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iv) Apart from administration, give three other services that are provided at Nkubu divisional headquarters. (3 marks)

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b) i) What is the length in km of the all-weather bound surface road from the bridge at Nkubu water works(509935) to the road junction near kitimbi (509995)? (2 marks)

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ii) State three problems that may be encountered during construction of roads in the area covered by the map? (3 marks)

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- c) Citing evidence from the map, give three reasons why cattle rearing is widespread in Nkubu area (6 marks)

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- d) Describe the drainage of the area covered by the map. (6 marks)

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**17. 2012 Q6 P1**

*Answer question 6 and any other two questions from this section.*

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.

- (a) (i) Identify the **two** human made features found at the grid square 2320. (2 marks)

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- (ii) What is the altitude of the highest point in the area covered by the map? (2 marks)

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- (iii) Give **three** types of natural vegetation found in the area covered by the map. (3 marks)

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- (b) (i) What is the bearing of the Air Photo Principal Point at grid square 3426 from the Air Photo Principal Point at grid square 2931 ? (2 marks)

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- (ii) Measure the distance of the dry weather road (C 640) from the junction at point M (345142) to the junction at point N (**416201**). Give your answer in Kilometres. (2 marks)

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- (c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross section from grid reference 410180 to grid reference 500180. (4 marks)

- (ii) On the cross-section, mark and name the following: (1 mark)  
A dry weather road; (1 mark)  
• River Kaptarit; (1 mark)  
• a ridge (1 mark)  
(iii) Calculate the vertical exaggeration (VE) of the section. (2 marks)

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- (d) Citing evidence from the map, identify **five** social services offered in Kitale Municipality. (5 marks)

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