



Province of the  
**EASTERN CAPE**  
EDUCATION

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**SEPTEMBER 2017**

**MATHEMATICAL LITERACY P1  
ADDENDUM**

**MARKS: 150**



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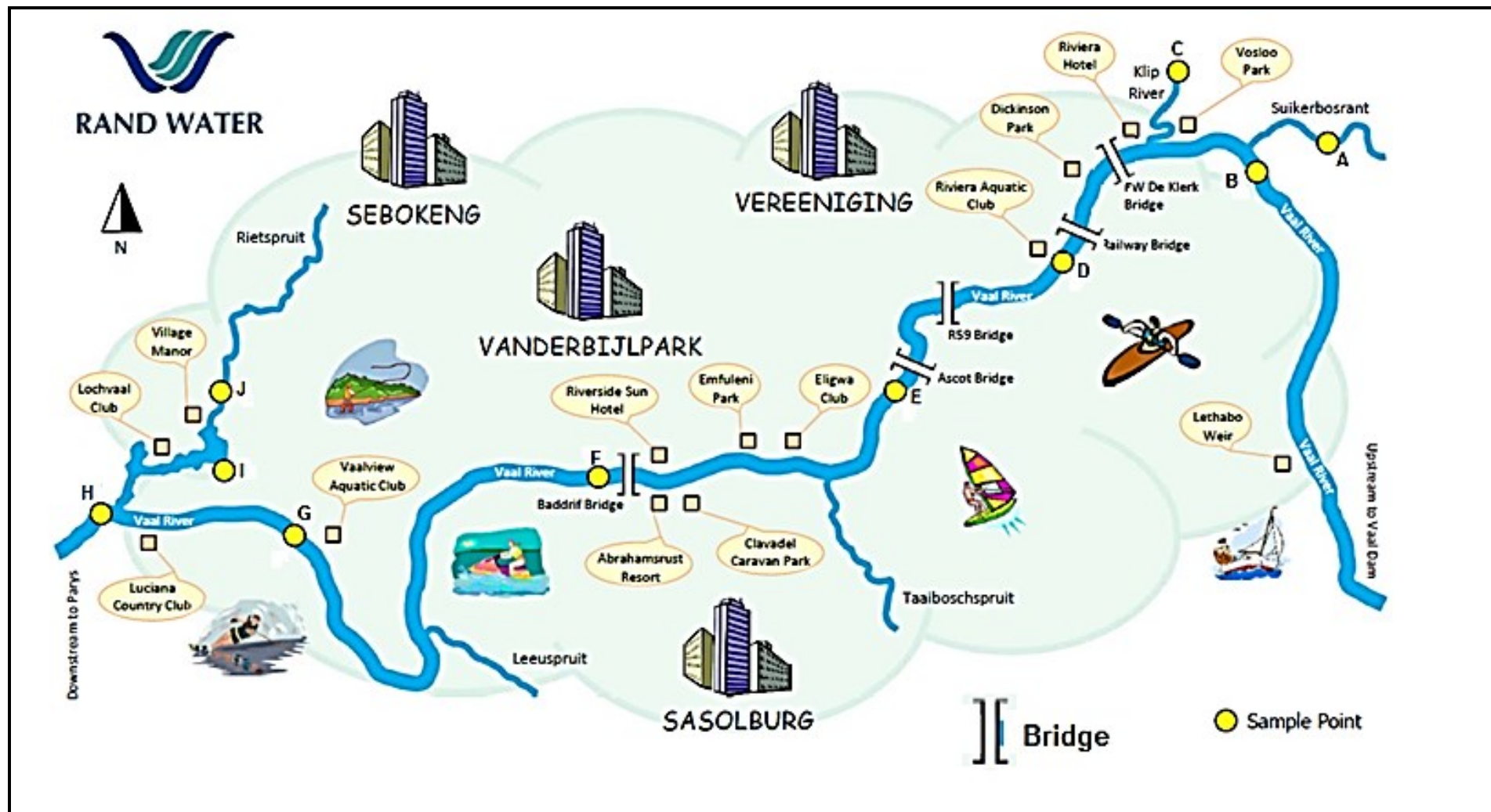
This addendum consists of 5 page with annexures.

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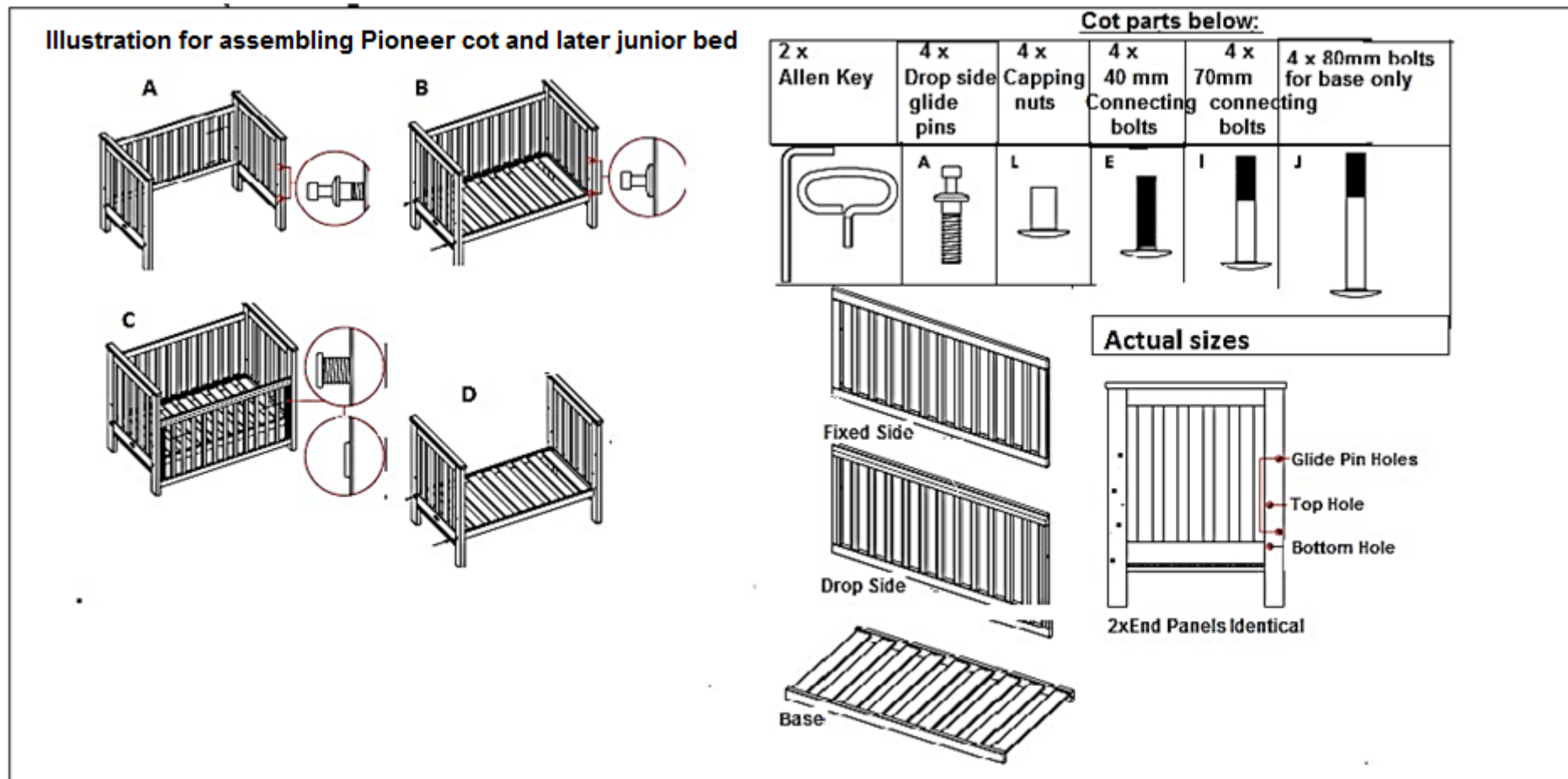
**ANNEXURE A: QUESTION 1.4****DISTANCES IN KM BETWEEN THE CITIES IN SOUTH AFRICA**

	Bloemfontein	Cape Town	Durban	East London	Johannesburg	Kimberley	Mafikeng	Port Elizabeth	Pretoria	Umtata
Bloemfontein	–	1004		584	398	177	464	681	455	570
Cape Town	1 004	–	1 753	1 079	1 402	969	1 343	769	1 460	1 314
Durban	634	1 753	–	674	557	811	821	984	636	439
East London	584	1 079	674	–	982	780	1 048	310	1 040	235
Johannesburg	398	1 402	557	982	–	476	287	1 075	58	869
Kimberley	177	969	811	780	476	–	380	743	530	747
Mafikeng	464	1 343	821	1 048	287	380	–	1 141	294	1 034
Polokwane	706	1 710	886	1 290	297	780	569	1 383	250	1 181
Port Elizabeth	681	769	984	310	1 075	743	1 141	–	1 133	545
Pretoria	455	1 460	636	1 040	58	530	294	1 133	–	928
Umtata	570	1 314	439	235	869	747	1 034	545	928	–

## QUESTION 4.1: ANNEXURE B



## QUESTION 4.2: ANNEXURE C



**QUESTION 5.3: ANNEXURE D****TABLE 6: RESULTS OF THE TEST FOR ESCHERICHIA AND BLUE GREEN ALGAE AT DIFFERENT SAMPLE POINTS AND A GUIDELINE TO THE RISK REGARDING READINGS**

Escherichia coli (E. coli)		E. coli counts per 100 mℓ at sample points									
Possible symptoms include: Skin irritations, infections and gastrointestinal disorders*	Sample points	1	2	3	4	5	6	7	8	9	10
	Results	236	8	649	488	140	108	16	291	1 236	28
Guideline	Low risk of gastrointestinal disorders E. coli < 130 counts/100 mℓ	Slight risk of gastrointestinal disorders E. coli 130–200 counts/100 mℓ			Significant risk of gastrointestinal disorders E. coli 200–400 counts/100 mℓ			High risk of gastrointestinal disorders E. coli >400 counts/100 mℓ			
Blue Green Algae		Blue Green Algae counts per 100 mℓ at sample points									
Possible symptoms include: Skin irritations, infections and gastrointestinal disorders*	Sample points	1	2	3	4	5	6	7	8	9	10
	Results	181	121	121	39	294	213	422	1 086	121	543
Guideline	Low risk Blue Green Algae < 20,000 cells/mℓ			Moderate risk Blue Green Algae 20,000–100,000 cells/mℓ			High risk Blue Green Algae >100,000 cells/mℓ				

[Adapted from *Barrage Weekly*, 03 June, [www.reservoir.co.za](http://www.reservoir.co.za)]**\*If ingested. X sample not received / no information available. Reports generated every Friday of the year.**





