

Mathematical Literacy 2 Module 3 Test Questions

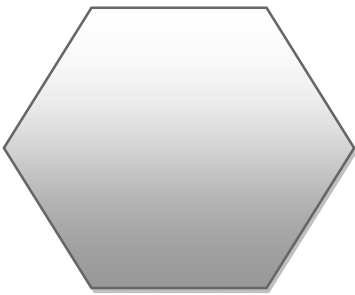
Name:

Marks Available: 50

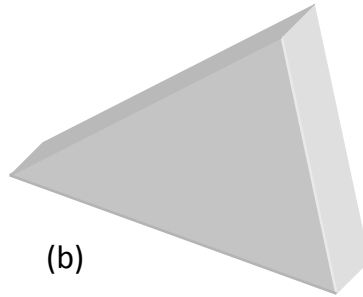
Time: 45 minutes

Question 1:

Identify the following shapes:

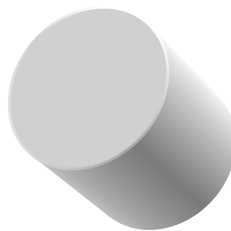


(a)

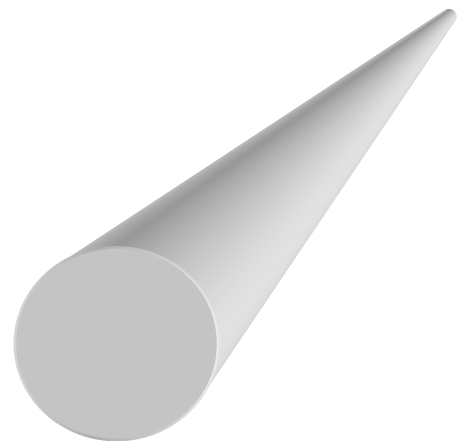


(b)

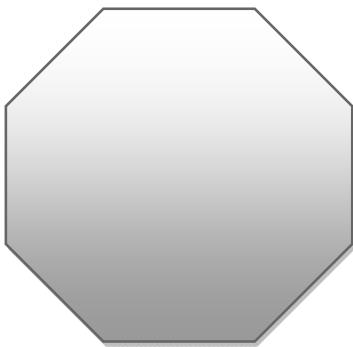
[5]



(c)



(d)

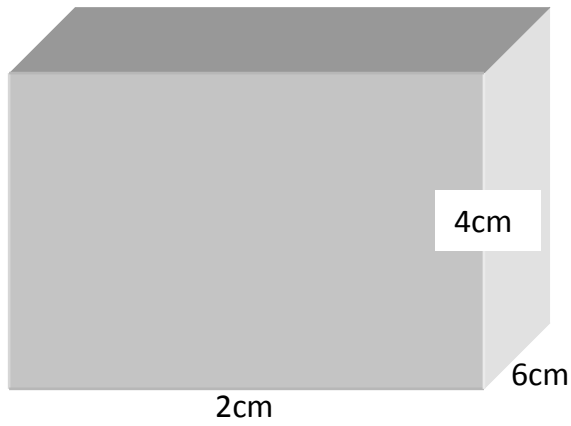


(e)

- (a)
- (b)
- (c)
- (d)
- (e)

Question 2

Calculate the following:



a. Volume of the cube (3)

V =
=
=

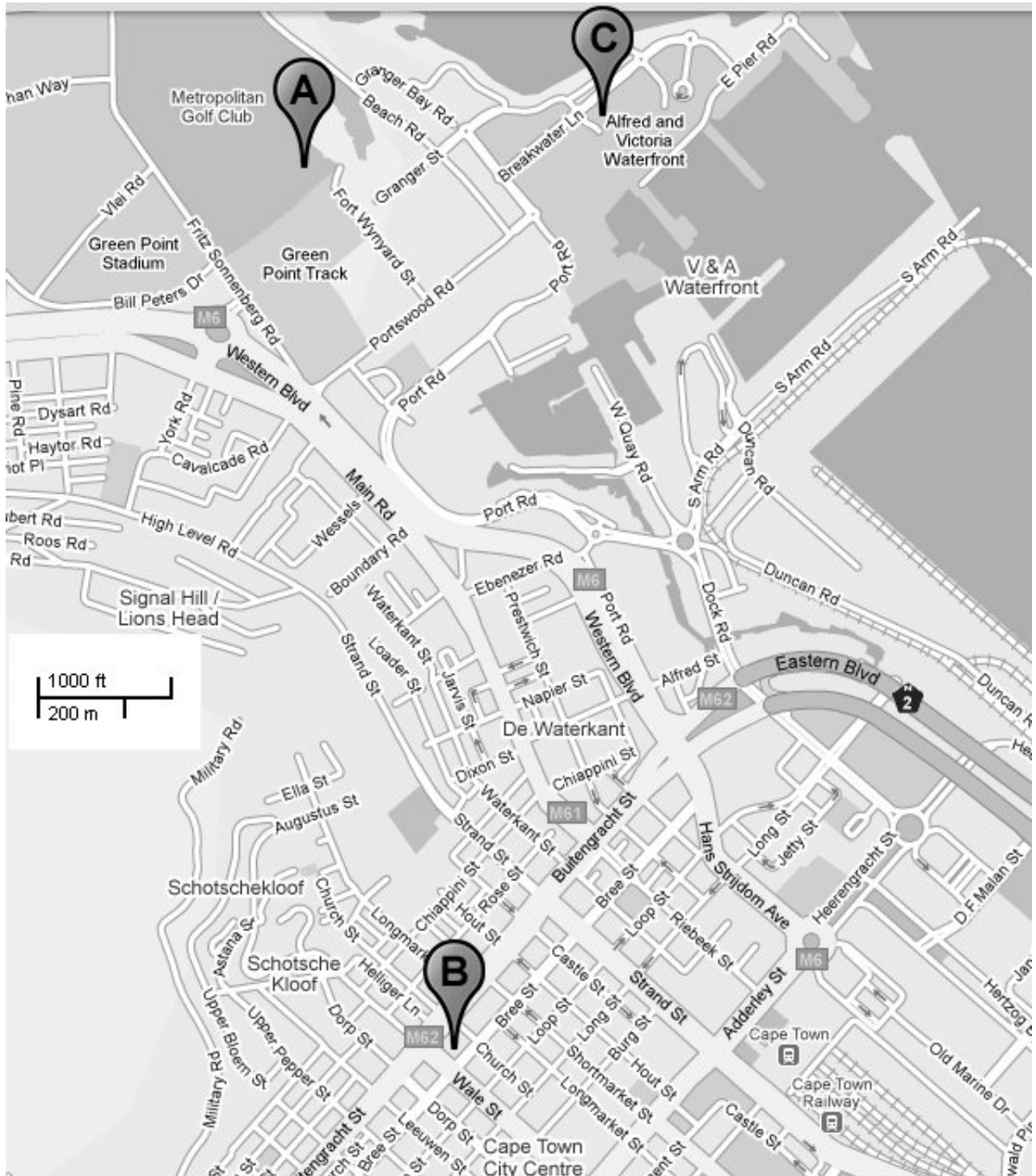
b. Surface area of the cube (6)

SA =
=
=

[9]

Question 3

Study the map and answer the questions that follow:



- a. What is the distance (as the crow flies) between Cape Town Station and the New Greenpoint Stadium (point A) on the map? (3)

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- b. Draw what you consider to be the quickest route between a Hotel on the corner of Wale and Buitengracht Street (Point B) and the V&A Waterfront (Point C).
What is this distance? (6 marks)

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- c. If a car averages 40km/h. How long will it take to cover 20 km through the city? (3)

.....

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Question 4

Study the table of distances and answer the questions that follow:

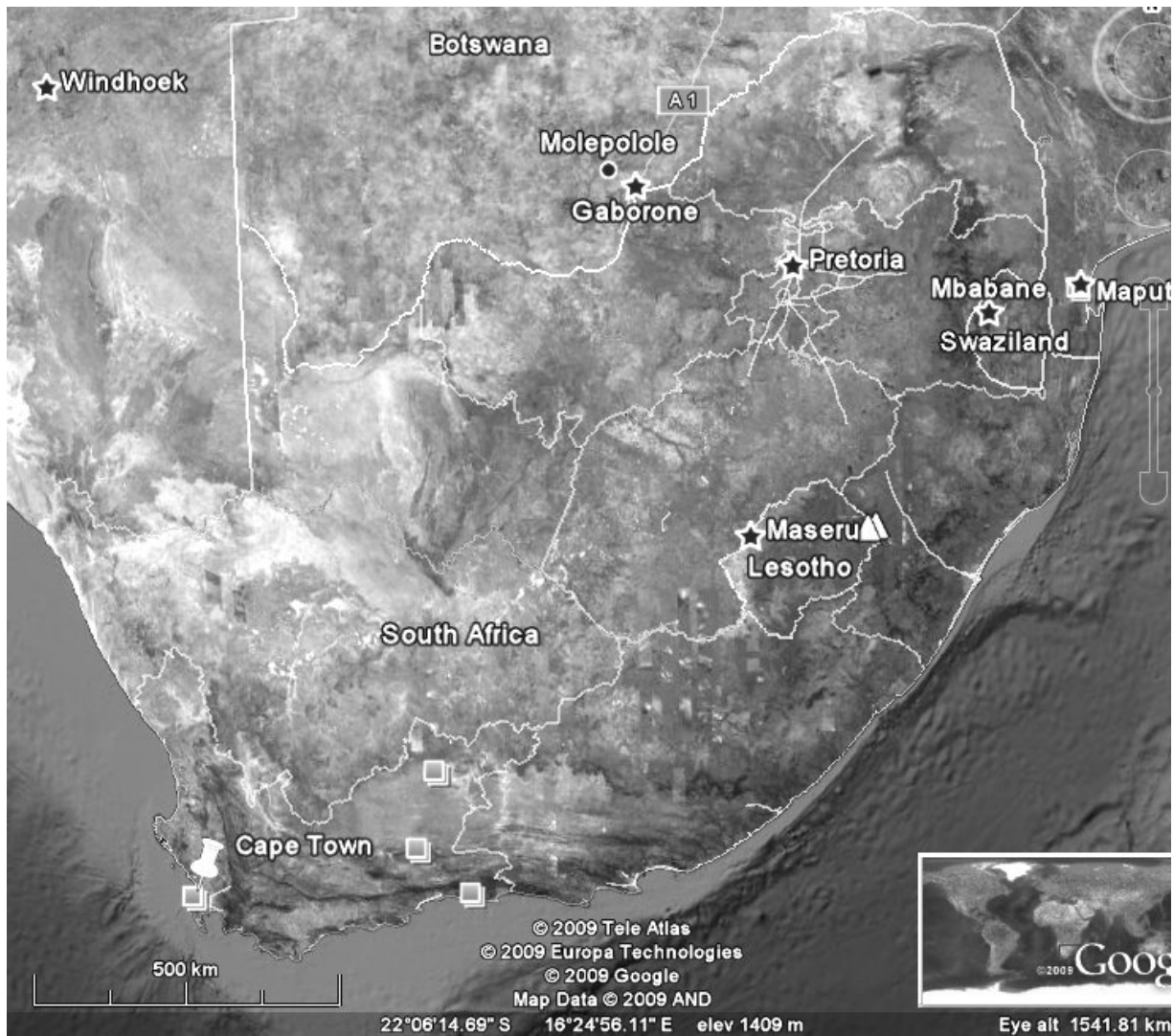
	BLOEMFONTEIN	BULAWAYO	CAPE TOWN	DURBAN	EAST LONDON	GABORONE	HARARE	JOHANNESBURG	KIMBERLEY	LUSAKA	MAFIKENG	MAPUTO	MASERU	MBABANE	PORT ELIZABETH	PRETORIA	UMTATA	WINDHOEK
BEIRA	1806	726	2810	1734	2408	1434	565	1408	1880	1054	1592	1101	1850	1734	2718	1362	2173	2704
BLANTYRE	2132	1051	3136	2323	2716	1759	612	1735	2207	1113	1917	1675	2290	2005	2810	1677	2608	2763
BLOEMFONTEIN	●	1264	1004	634	584	622	1521	398	177	2010	464	900	157	677	677	456	570	1559
BULAWAYO	1264	●	2268	1454	1848	708	439	866	1338	927	888	1061	1421	1180	1941	808	1739	1625
CAPE TOWN	1004	2268	●	1753	1079	1501	2525	1402	962	3014	1343	1903	1160	1680	769	1460	1314	1480
COLESBERG	226	1490	778	860	488	848	1929	624	292	2418	672	1123	383	903	451	682	517	1539
DURBAN	634	1456	1753	●	674	979	1711	578	811	2381	821	633	590	562	984	636	439	2207
EAST LONDON	584	1850	1079	674	●	1206	2105	982	780	2594	1048	1301	630	1238	310	1040	235	1953
GABORONE	622	708	1501	979	1206	●	1147	358	538	1636	158	957	702	719	1299	350	1192	1715
GEORGE	773	2039	438	1319	645	1361	2294	1171	762	2783	1203	1670	913	1450	335	1229	880	1853
GRAAFF-REINET	424	1690	787	942	395	1012	1945	822	490	2434	854	1321	599	1101	291	880	503	1663
GRAHAMSTOWN	601	1867	899	854	180	1223	2122	999	667	2611	1065	1478	692	1418	130	1057	415	1822
HARARE	1521	439	2525	1711	2105	1147	●	1123	1595	489	1305	1648	1561	1401	2198	1065	1996	2029
JOHANNESBURG	398	866	1402	578	982	358	1123	●	472	1611	287	599	438	361	1075	58	869	1781
KEETMANSHOOP	1074	1938	995	1708	1468	1230	2595	1296	897	2135	1072	1895	1283	1657	1431	1354	1547	485
KIMBERLEY	177	1246	962	811	780	538	1595	472	●	2084	380	1071	334	833	743	530	747	1382
LADYSMITH	410	1222	1413	248	752	755	1661	356	587	2359	597	567	386	386	1062	414	517	1988
LIVINGSTONE	1712	448	2716	1902	2296	1156	852	1156	1786	473	1314	1509	1869	1628	2389	1256	2187	1177
LUSAKA	2010	927	3014	2381	2594	1636	489	1611	2084	●	2280	1988	2167	1972	2686	1737	2665	1650
MAFIKENG	464	866	1343	821	1048	158	1305	287	380	1793	●	886	544	648	1141	294	1034	1557
MAPUTO	897	1061	1903	633	1301	957	1648	599	1071	2211	886	●	853	223	1609	583	1064	2380
MASERU	157	1410	1160	590	630	702	3496	438	334	3007	544	853	●	633	822	488	616	1716
MBABANE	677	1421	1680	562	1238	719	1401	361	833	1972	648	223	633	●	1548	372	1003	2142
MESSINA	917	338	1921	1107	1501	696	593	519	991	1082	680	725	949	797	1594	461	1392	2311
NELSPRUIT	757	1069	1762	707	1226	672	1387	355	827	1876	635	244	713	173	1434	322	976	2136
PIETERMARITZBURG	555	1365	1674	79	595	900	1804	499	732	2293	742	706	511	640	905	557	360	2114
PIETERSBURG	706	549	1710	886	1290	485	804	308	780	1293	569	605	738	504	1383	250	1181	2100
PORT ELIZABETH	677	1941	769	984	310	1299	2198	1075	743	2687	1141	1609	822	1548	●	1133	545	1916
PRETORIA	456	808	1460	636	1040	350	1065	58	530	1554	294	583	488	372	1133	●	928	1839
UMTATA	570	1736	1314	439	235	1192	1992	869	747	2691	1034	1064	616	1003	545	928	●	2032
UPINGTON	574	1438	894	1208	968	730	1877	796	397	2366	572	1395	731	1157	933	854	1047	985
WELKOM	153	1187	1156	564	737	479	1080	258	294	1569	321	813	249	451	830	316	718	1659
WINDHOEK	1559	1625	1480	2207	1953	1715	2029	1781	1382	1650	1557	2380	1716	2142	1916	1839	2032	●

- a. What is the distance between Harare and Bloemfontein? (2)
- b. What is the largest distance on the map? (3)

[5]

Question 5

Study the map and answer the questions that follow (the scale of 500km represents the full distance between the lines)



a. What is the scale of this map? (4)

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.....
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b. What is the distance between Cape Town and Windhoek according to the map? (3)

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c. Compare this distance to the distance on the distance table. If they are different, explain why. (3)

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d. How long would it take to fly from Cape Town to Pretoria if the plane averages 600km/h? (6)

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[19]