

Essentials of Mathematics 10
Sample Exam A
 (Updated October 2006)
 Provincial Examination — Answer Key

Cognitive Processes

K = Knowledge
U = Understanding
H = Higher Mental Processes

Question Types

52 = Multiple Choice (MC)
8 = Numerical Response (NR)

Topics	Prescribed Learning Outcomes (PLOs)	Weightings
1. Problem Solving	A	Integrated throughout
2. Personal Banking	B	20 – 30%
3. Wages, Salaries and Expenses	C	25%
4. Spreadsheets	D	35 – 40%
5. Rates, Ratio and Proportion	E	10 – 15%
6. Trigonometry	F	Integrated throughout
7. Geometry Project	G	Integrated throughout
8. Probability and Sampling	H	Integrated throughout

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type
1.	D	K	1	2	B4	MC
2.	B	U	1	2	B1	MC
3.	C	U	1	2	B2	MC
4.	68	U	1	2	B2	NR
5.	B	U	1	2	B3	MC
6.	B	U	1	2	B1	MC
7.	A	U	1	2	B3	MC
8.	D	H	1	2	B5	MC
9.	C	K	1	3	C2	MC
10.	C	U	1	3	C1	MC
11.	D	U	1	3	C2	MC
12.	675	U	1	3	C4	NR
13.	A	U	1	3	C4	MC
14.	B	U	1	3	C1	MC
15.	C	H	1	3	C3	MC

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type
16.	A	K	1	4	D1	MC
17.	C	U	1	4	D2, E2	MC
18.	C	U	1	4	D3	MC
19.	51.49	U	1	4	D2, E2	NR
20.	B	H	1	4	D4, E2	MC
21.	D	U	1	4	D3, 1	MC
22.	D	U	1	4	D5	MC
23.	D	K	1	5	E4	MC
24.	C	U	1	5	E1	MC
25.	B	U	1	5	E1	MC
26.	D	U	1	5	E1	MC
27.	90	U	1	5	E4	NR
28.	A	U	1	5	E2, 3	MC
29.	D	H	1	5	E4, 1	MC
30.	B	U	1	5	E4	MC
31.	C	K	1	6	F2	MC
32.	A	U	1	6	F2	MC
33.	B	U	1	6	F1	MC
34.	72	U	1	6	F2	NR
35.	C	U	1	6	F2	MC
36.	C	H	1	6	F1	MC
37.	B	K	1	7	G1	MC
38.	A	U	1	7	G5	MC
39.	C	U	1	7	G1, 2	MC
40.	D	U	1	7	G1, 2	MC
41.	B	U	1	7	G1, 2	MC
42.	50	U	1	7	G8	NR
43.	A	U	1	7	G6	MC
44.	C	U	1	7	G7	MC
45.	D	H	1	7	G6	MC

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type
46.	A	K	1	7	G4	MC
47.	D	U	1	7	G3	MC
48.	C	H	1	7	G3	MC
49.	50	U	1	8	H6	NR
50.	D	U	1	8	H6	MC
51.	C	U	1	8	H5	MC
52.	D	U	1	8	H5	MC
53.	A	U	1	8	H1	MC
54.	B	K	1	8	H7	MC
55.	C	U	1	8	H6	MC
56.	A	U	1	8	H8, 7	MC
57.	0.03 to 0.04	U	1	8	H6	NR
58.	C	U	1	8	H4, 3	MC
59.	B	U	1	8	H3, 2	MC
60.	D	H	1	8	H6	MC