

Essentials of Mathematics 10  
**Sample Exam B**  
 (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	Question Source
1.	B	U	1	2	B1	MC	
2.	A	U	1	2	B4	MC	
3.	A	H	1	2	B5	MC	
4.	842.24	U–	1	2	B2	NR	
5.	A	U+	1	2	B4	MC	
6.	B	U+	1	2	B5	MC	
7.	D	U–	1	2	B4	MC	
8.	D	U	1	3	C1	MC	
9.	C	U	1	3	C1	MC	
10.	C	U	1	3	C2	MC	
11.	B	H	1	3	C2	MC	
12.	45.5	U–	1	3	C1	NR	
13.	C	U	1	3	C4	MC	
14.	D	U	1	3	C2	MC	
15.	B	U	1	3	C1	MC	

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source
16.	B	U	1	4	E2	MC	
17.	C	K	1	4	D1	MC	
18.	D	U	1	4	D2	MC	
19.	75	U-	1	4	D4	NR	
20.	A	U	1	4	D4	MC	
21.	C	K	1	4	E2	MC	
22.	D	H	1	4	E1	MC	
23.	B	U	1	5	E4	MC	
24.	B	U-	1	5	D3	MC	
25.	A	U+	1	5	D3	MC	
26.	B	H	1	5	D2	MC	
27.	17.35	U-	1	5	E1	NR	
28.	D	U	1	5	E1	MC	
29.	C	U	1	5	E3	MC	
30.	B	U	1	5	E2	MC	
31.	B	U	1	6	G1	MC	
32.	A	K	1	6	G1	MC	
33.	A	U	1	6	F2	MC	
34.	22.5	U	1	6	F1	NR	
35.	B	H	1	6	F1	MC	
36.	D	U	1	6	F2	MC	
37.	C	K	1	6	F2	MC	
38.	C	U	1	6	F2	MC	
39.	B	U+	1	7	G2	MC	
40.	D	H	1	7	G2	MC	
41.	A	U	1	7	G5	MC	
42.	162	U	1	6	F1	NR	
43.	C	U	1	7	G7	MC	
44.	B	U	1	7	G1	MC	
45.	C	U	1	7	G6	MC	

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source
46.	10	K	1	8	H4	NR	
47.	B	U+	1	7	G8	MC	
48.	B	H	1	7	G7	MC	
49.	A	U+	1	7	G7	MC	
50.	A	U-	1	8	H1	MC	
51.	B	U-	1	8	H1	MC	
52.	B	U-	1	8	H7	MC	
53.	A	U-	1	7	G7	MC	
54.	100	K	1	8	H2	NR	
55.	D	U-	1	8	H4	MC	
56.	B	U-	1	8	H5	MC	
57.	C	U+	1	8	H5	MC	
58.	D	U+	1	8	H1	MC	
59.	A	U+	1	8	H2	MC	
60.	D	H	1	8	H6	MC	