MEDICAL ARITHMETIC

TASK A

Convert the following measurements into milligrams

1) 1g = 1,000mg
2) 0.25g = 250mg
3) 50mcg = 0.05mg
4) 0.001g = 1mg
5) 3mcg = 0.003mg
6) 18g = 18,000mg
7) 750mcg = 0.75mg
8) 2kg = 2,000,000mg

TASK B

Calculate how many tablets the patient should be given in each scenario

	DOSE TO BE GIVEN	TABLET STOCK STRENGTH	NUMBER OF TABLETS NEEDED
1)	4,000mg	4g	4,000mg (4 1,000mg) = 4,000mg 4,000mg = 1 tablet
2)	200mcg	0.1mg	200mcg (0.1 1,000mcg) = 200mcg 100mcg = 2 tablets
3)	0.2g	50mg	(0.2 1,000mg) 50mg = 200mg 50mg = 4 tablets
4)	75mcg	0.025mg	75mcg (0.025 1,000mcg) = 75mcg 25mg = 3 tablets
5)	0.01g	5mg	(0.01 1,000mg) 5mg = 10mg 5mg = 2 tablets
6)	4,500mg	1.5g	4,500mg (1.5 1,000mg) = 4,5000mg 1,500mg = 3 tablets

MEDICAL ARITHMETIC

TASK C

For each scenario, calculate the volume of solution that the patient needs to be given in millilitres.

	DOSE TO BE GIVEN	SOLUTION STRENGTH	SOLUTION VOLUME	VOLUME OF SOLUTION THE PATIENT NEEDS
1)	100mg	50mg	1ml	(100mg 50mg) 1ml = 2 1ml = 2ml
2)	300mg	0.2g	6ml	0.2g = 200mg (300mg 200mg) 6ml = 1.5 6ml = 9ml
3)	1,000mg	1.25g	10ml	1.25g = 1,250mg (1,000mg 1,250mg) 10ml = 0.8 10ml = 8ml
4)	4g	160mg	3ml	4g = 4,000mg (4, 000mg 160mg) 3ml = 25 3ml = 75ml
5)	750mcg	0.5mg	6ml	0.5mg = 500mcg (750mcg 500mcg) 6ml = 1.5 6ml = 9ml
6)	150g	1,000mg	2ml	150g = 150,000mg (150,000mg 1,000mg) 2ml = 150 2ml = 300ml