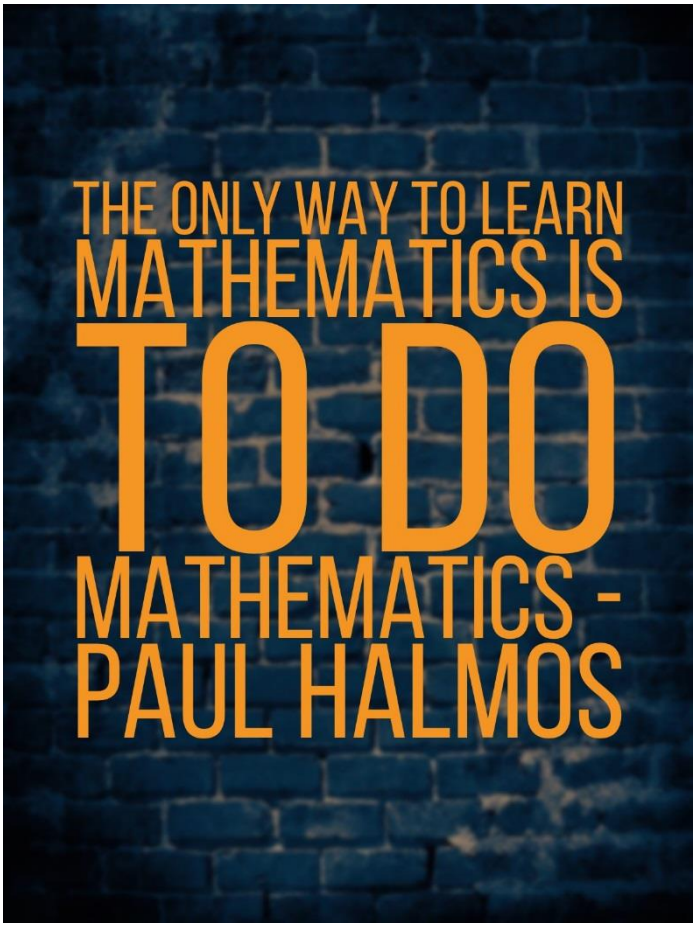
c

Student Mathematics workbook 2020



Student name

ENGINEERING MULTIPLES & SUB-MULTIPLES WORKSHEET 1

Engineering multiples & sub-multiples worksheet 1

1. Convert to the given multiple or sub-multiple:

50,000 Ω	=	**50**	kΩ	0.000 05 A	=	**50**	µA
2435 V	=		kV	0.002 5 A	=		mA
500,000,000 Ω	=		MΩ	0.002 W	=		mW
4,500 A	=		kA	2 W	=		mW
12,340,000,000,000 Wh	=		TWh	0.000 14 Ω	=		µΩ
270,000 W	=		MW	0.056 V	=		mV
25,450 V	=		kV	0.000 000 000 04 F	=		pF
265.5 A	=		kA	0.000 000 000 04 F	=		nF
0.000 023 4 J	=		µJ	45,000 V	=		kV

2. Convert the following to base units:

20 MΩ	=	**20,000,000**	Ω	200 mA	=	**0.2**	A
1500 kV	=		V	1200 mA	=		A
50 kA	=		A	0.54 mA	=		A
1.6 kV	=		V	12.6 mH	=		H
0.56 MΩ	=		Ω	500,000 nF	=		F
0.2 kV	=		V	50 µF	=		F
0.000 5 GW	=		W	85000 mA	=		A
0.000 005 TWh	=		Wh	85,000,000,000 pH	=		H
0.016 kV	=		V	25.64 µH	=		H

3. Convert to the given multiple or sub-multiple:

20,000 mΩ	=	**0.02**	kΩ	250 nF	=	**250,000**	pF
345 kV	=		MV	60,000 kΩ	=		MΩ
0.789 mH	=		µH	0.045 µF	=		mF
57,000,000 mV	=		kV	65,000 kΩ	=		mΩ
107 pF	=		nF	0.079 nF	=		mF
0.000 05 kV	=		mV	0.026 nA	=		pA