77 C 1	<b>-</b>	
Usetul	<i>Estima</i>	tions

<u>User</u>	ful Estimations
1	Power of a car = 60KW
2	Weight of an adult = 700N
3	Energy requirement for a person for one day = 10,000,000 J
4	Speed of sound = 300ms <sup>-1</sup>
4 5	Speed of plane= 300ms <sup>-1</sup>
6	Speed on a motorway = 30ms <sup>-1</sup>
7	Height of UK mountain = 1000m
8	Height of a tall man = 2m
9	Mass of a car = $1000$ kg
10	Mass of an adult = 70kg
11	Power of washing machine = 350-500W
12	Power of coffee maker = 900-1200W
13	Power of a bulb = 100W
14	Mass of the earth = $6x10^{24}$ kg
15	Radius of the earth $= 6 00 \text{km}$
16	Distance to the Sun = $150,000,000$ km
17	Distance to the moon = $400,000$ km
18	Density of water = 1000kgm <sup>-3</sup>
19	Power of a person = $100W$
20	Pressure of the atmosphere = $1 \times 10^5$ Pa
21	Power of heater = $750-1500 \text{ W}$
22	Power of hair dryer = 1200-1875W
23	Power of electric iron = 1000-1800W
24	Power of microwave oven = 750-1100W
25	Power of Radio (Stereo) = 70-400W
26	Power of Refrigerator = 725W
27	Power of Television = 120W
28	Power of Toaster oven = 1225W
29	Power of DVD = $20-25W$
30	Power of $VCR = 17-21W$
31	Power of vacuum cleaner = 1000-1440W
32	Current through a landline device = 0.8A
33	Mass of moon = $7.34767309 \times 10^{22} \text{kg}$
34	Distance from Boston to London = 4800Km
35	Mass of human heart = 250-350g
36	Mass of an apple = 100g
37	Power of Grinder = 1380W
38	Power of air compressor = 2000W
39	Power of water bed (heater) =120-380W
40	Power of water pump = 250-1100W
41	Power of water heater = 4500-5500W
42	Body temperature = 37°c

Diameter of eyeball = 24mm  Diameter of water = 1000kgm <sup>-3</sup> Density of wood = 1120kgm <sup>-3</sup> Length of human arm = 35cm  Length of human hand = 17cm  Mass of wooden door = 15kg  Mass of a 30cm ruler = 20g  Mass of a pencil = 25g  Mass of a proton = 1.67 x 10 <sup>-27</sup> kg  Thickness of paper = 0.1mm  Thickness of hair = 0.001cm  Diameter of glass = 8cm  Volume of human head = 2400-5000cm <sup>3</sup> Area of a car = 4000cm <sup>3</sup>
45 Density of wood = 1120kgm <sup>-3</sup> 46 Density of copper = 8.9gcm <sup>-3</sup> 47 Length of human arm = 35cm 48 Length of human hand = 17cm 49 Mass of wooden door = 15kg 50 Mass of a 30cm ruler = 20g 51 Mass of a pencil = 25g 52 Mass of a proton = 1.67 x 10 <sup>-27</sup> kg 53 Thickness of paper = 0.1mm 54 Thickness of hair = 0.001cm 55 Diameter of glass = 8cm 56 Volume of human head = 2400-5000cm <sup>3</sup> 57 Area of a car = 4000cm <sup>3</sup>
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<ul> <li>Mass of wooden door = 15kg</li> <li>Mass of a 30cm ruler = 20g</li> <li>Mass of a pencil = 25g</li> <li>Mass of a proton = 1.67 x 10<sup>-27</sup>kg</li> <li>Thickness of paper = 0.1mm</li> <li>Thickness of hair = 0.001cm</li> <li>Diameter of glass = 8cm</li> <li>Volume of human head = 2400-5000cm<sup>3</sup></li> <li>Area of a car = 4000cm<sup>3</sup></li> </ul>
50 Mass of a 30cm ruler = 20g  51 Mass of a pencil = 25g  52 Mass of a proton = 1.67 x 10 <sup>-27</sup> kg  53 Thickness of paper = 0.1mm  54 Thickness of hair = 0.001cm  55 Diameter of glass = 8cm  56 Volume of human head = 2400-5000cm <sup>3</sup> 57 Area of a car = 4000cm <sup>3</sup>
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<ul> <li>Volume of human head = 2400-5000cm<sup>3</sup></li> <li>Area of a car = 4000cm<sup>3</sup></li> </ul>
$57  \text{Area of a car} = 4000 \text{cm}^3$
FO 147 1 1 . C 44 0007
58 Weight of a car = $11 00$ N
59 Power of telephone = 30W
60 Mass of a flower = 2g
61 Diameter of earth = 12,700km
Mass of electron = $9.11 \times 10^{-31} \text{kg}$
63 Mass of eraser = 20g
Density of plastic = $1.2g/cm^3$
65 Length of pencil lead = 0.5cm
66 Size of human finger = 7cm
67 Length of house window = 20cm
68 Mass of riding boots = 2kg
69 Mass of hair brush = 0.25kg
70 Weight of inches tape = 100g
71 Weight of bottle cork = 0.1N
72 Weight of 1.5 litre bottle = 1000n
73 Weight of 1 litre bottle = 0.1kg
74 Weight of tissue paper = 20N
75 Mass of tissue paper = 2g
76 Volume of wardrobe = 300,000cm <sup>3</sup>
77 Mass of a tree = 7.86tonnes
78 Volume of a tree = $12m^3$
79 Gravity on moon = $1.6 \text{ m/s}^2$
80 Volume of a kettle = 1.5litre
81 Power of a kettle = 1000W
82 Thickness of greeting card=1-2 mm
83 Thickness of wooden door = 5cm
84 Mass of a football = 0. kg °« §£
85 Density of football = $5.6 \text{kg/m}^3$

Name	86	Mass of door handle = 1kg	
88 Mass of an elephant = 4 tones 89 Size/diameter of molecule up to 10 <sup>-9</sup> m 90 Diameter of alpha particle up to 10 <sup>-15</sup> m 91 Size of a nucleus 10 <sup>-15</sup> m 92 Molecular spacing 10 <sup>-9</sup> m 93 Mass of protractor 5-10g 94 Mass of an apple up to 300g 95 Mass of pencil up to 10g 96 Mass of sheet of paper 3-7g 97 Mass of a sparrow 50g 98 Volume of air in a room 125m³ 99 Density of milk 1100kgm³ 100 Density of blood 1056-1066 kgm-³ 101 Pressure due to 10m depth of water 100kPa 102 Pressure of 760mm of mercury 100kPa 103 Wavelength of white light a@ ~ onm 104 Wavelength of ultra violet light onm 105 Wavelength of ultra violet light onm 106 Mass of electronic calculator 200g 107 No of second in a day 86400s 108 Young modulus of metals 10 <sup>11</sup> -10 <sup>12</sup> Pa 109 Ionization power of alpha 10 <sup>5</sup> pairs/mm 110 Ionization power of gamma 1pair/mm 111 Ionization power of gamma 1pair/mm 112 Slit separation 0.3mm to 3.0mm 113 Distance of screen from slits 1m to 4m 114 Grating spacing 1.0um to 3.0um 115 Mass of a bicycle 20kg to 30 kg 116 Mass of 1m long national grid wire 1kg to 2kg 117 Resistance of LDR in sun light 100Ω 120 Resistance of LDR in sun light 100Ω 121 Resistance of LDR in moon light 1MΩ 122 Resistance of LDR in sun light 10ΩΩ 123 Diameter of a hair 0.5 mm 124 No of hair on human head 2x10 <sup>6</sup>	-		
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105 Wavelength of ultra violet light < 0nm 106 Mass of electronic calculator 200g 107 No of second in a day 86400s 108 Young modulus of metals 10 <sup>11</sup> -10 <sup>12</sup> Pa 109 Ionization power of alpha 10 <sup>5</sup> pairs/mm 110 Ionization power of beta 10 <sup>3</sup> pairs/mm 111 Ionization power of gamma 1pair/mm 112 Slit separation 0.3mm to 3.0mm 113 Distance of screen from slits 1m to 4m 114 Grating spacing 1.0um to 3.0um 115 Mass of a bicycle 20Kg to 30 Kg 116 Mass of 1m long national grid wire 1kg to 2kg 117 Resistance of domestic filament bulb 500 <sup>1</sup> Ω 118 Average speed of a person 10ms-1 119 Average K.E of a man 4000J 120 Resistance of LDR in sun light 100 <sup>1</sup> Ω 121 Resistance of LDR in moon light 1M <sup>1</sup> Ω 122 Resistance of LDR in complete darkness 10M <sup>1</sup> Ω 123 Diameter of a hair 0.5 mm 124 No of hair on human head 2x10 <sup>6</sup>	103	Wavelength of white light a © ° « Onm	
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117 Resistance of domestic filament bulb $500$ Ω  118 Average speed of a person $10$ ms <sup>-1</sup> 119 Average K.E of a man $4000$ J  120 Resistance of LDR in sun light $100$ Ω  121 Resistance of LDR in moon light $1$ MΩ  122 Resistance of LDR in complete darkness $10$ MΩ  123 Diameter of a hair $0.5$ mm  124 No of hair on human head $2x10^6$	115		
118 Average speed of a person $10\text{ms}^{-1}$ 119 Average K.E of a man $4000\text{J}$ 120 Resistance of LDR in sun light $100\Omega$ 121 Resistance of LDR in moon light $1M\Omega$ 122 Resistance of LDR in complete darkness $10M\Omega$ 123 Diameter of a hair 0.5 mm 124 No of hair on human head $2x10^6$	116	Mass of 1m long national grid wire 1kg to 2kg	
<ul> <li>119 Average K.E of a man 4000J</li> <li>120 Resistance of LDR in sun light 100Ω</li> <li>121 Resistance of LDR in moon light 1MΩ</li> <li>122 Resistance of LDR in complete darkness 10MΩ</li> <li>123 Diameter of a hair 0.5 mm</li> <li>124 No of hair on human head 2x106</li> </ul>	117	Resistance of domestic filament bulb $500\Omega$	
120Resistance of LDR in sun light $100$ Ω121Resistance of LDR in moon light $1$ ΜΩ122Resistance of LDR in complete darkness $10$ ΜΩ123Diameter of a hair $0.5$ mm124No of hair on human head $2x10^6$	118	Average speed of a person 10ms <sup>-1</sup>	
<ul> <li>Resistance of LDR in moon light 1MΩ</li> <li>Resistance of LDR in complete darkness 10MΩ</li> <li>Diameter of a hair 0.5 mm</li> <li>No of hair on human head 2x10<sup>6</sup></li> </ul>	119	Average K.E of a man 4000J	
<ul> <li>Resistance of LDR in complete darkness 10MΩ</li> <li>Diameter of a hair 0.5 mm</li> <li>No of hair on human head 2x10<sup>6</sup></li> </ul>	120	Resistance of LDR in sun light $100\Omega$	
123 Diameter of a hair 0.5 mm 124 No of hair on human head 2x10 <sup>6</sup>	121	Resistance of LDR in moon light $1M\Omega$	
No of hair on human head 2x10 <sup>6</sup>	122	Resistance of LDR in complete darkness 10MΩ	
	123	Diameter of a hair 0.5 mm	
125 Pressure under human foot 5MPa/8MPa	124	No of hair on human head 2x10 <sup>6</sup>	
	125	Pressure under human foot 5MPa/8MPa	