

Proportionality and Correlations

7.

A	B
0.9487	0.1000
1.3416	0.2000
1.6432	0.3000
1.8974	0.4000

C	D
6000.00	0.0500
1500.0000	0.1000
666.6667	0.1500
375.0000	0.2000

E	F
3.2000	4.0000
25.6000	8.0000
86.4000	12.0000
204.8000	16.0000

G	H
10.0000	100.0000
11.1803	80.0000
12.9099	60.0000
15.8114	40.0000

Solutions

1. convert

- $5.48 \times 10^5 \text{ km}^2 / \text{Gy}$
- $2.443 \times 10^{-30} \text{ Tm}^3 / \text{Gy}^2$

2.

- 56980000
- 0.0568
- 0.357

3.

- 5.689×10^{19}
- 8.94783×10^{-14}

4.

- 2.7 cm
- 16000 s
- 1000000000

5.

- P.O.M = dm, P.O.I = m
- P.O.M = 100th of μm , P.O.I = 10th of μm
- P.O.M = μm , P.O.I = 10s of μm
- P.O.M = m, P.O.I = dam

6.

- 222.5 Hz \rightarrow 222 Hz
- 890 Hz \rightarrow 890 Hz
- 395.6 Hz \rightarrow 396 Hz

7.

- $A \propto \sqrt{B}$
- $C \propto \frac{1}{D^2}$
- $E \propto F^3$
- $G \propto \frac{1}{\sqrt{H}}$