

Homework Solutions

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Exercise 69

- (a) The label is milliroentgens per hour, or mR/hr.
- (b) No. The lowest measurement is between 0.1 and 0.2 and the largest is between 0.8 and 0.9, but we do not know their exact values.
- (c) That would include the rightmost 4 classes. Their counts are 3, 2, 3, and 2, so the percentage is $\frac{10}{20} = 50\%$.
- (d) Divide the limit of 0.50 mR/hr by 0.08 mR/hr to get $\frac{0.50}{0.08} = 6.25$, so you could put 6, but not 7, such TV sets in your room and not exceed the safety limit.