

Stats Practice Key

1. 240 animals, 80 are whales

$$\frac{80}{240} \times 100 = 33.3\% \text{ whales in country}$$

2. $\frac{30 - 80}{80} \times 100 = -62.5\% \text{ change (dec.) in dolphin population}$

3. $\frac{180 - 10}{2022 - 2017} = \frac{170 \text{ bears}}{5 \text{ years}}$ or ~~34~~ 34 bears/yr

4. $V = 12^3 = 1728 \mu\text{m}^3$
 $SA = 6(12^2) = 864 \mu\text{m}^2$

5. $\frac{2090 - 14}{54} = \frac{C_2 \cdot 5L}{5L} = 4\% \text{ concentration}$

6. min = 40 - 60
max = 130 - 140
mode ~~range~~ = 100 - 110

7. $\bar{x} = 81.13$
range = $88.39 - 72.55 = 15.84$

over \rightarrow

$$8. \quad \frac{1 \text{ inch}}{2.54 \text{ cm}} \times \frac{2.54 \text{ cm}}{1 \text{ in}} = 12.7 \text{ cm} \\ = 127 \text{ mm}$$

$$9. \quad \frac{50 \text{ mi}}{\text{gal}} \times \frac{1.6 \text{ km}}{\text{mi}} \times \frac{\text{gal}}{3.78 \text{ L}} = 21.16 \text{ km/L} \\ \text{prius} > \text{euro-car}$$