

**Answers to Sample Final Exam**  
Math 125 (Introductory Statistics) *Kovitz* Spring 2023

1. D.
2. D.
3. False.
4. (a) C.  
(b) D.  
(c) D.
5. A.
6. D.
7. F.
8. D.
9. D.
10. F.
11. D.
12. B.
13. 0.375 or  $3/8$
14. 70.4 inches.
15. about 2.72257 inches.
16.  $\text{height} = 0.028 \times \text{weight} + 64.1$ ;      69 inches;    70.4 inches  
or  $\text{height} = \left(\frac{1.26}{45}\right) \times \text{weight} + 64.1$ ;    69 inches;    70.4 inches  
or  $\text{height} = \left(\frac{14}{500}\right) \times \text{weight} + 64.1$ ;    69 inches;    70.4 inches
17. 37.8 pounds
18.  $P = 0.0235\%$ ; gets too many heads.
19.  $P = 0.345\%$ ; gets too many fours.
20. Left-hand table:  $P$  is a bit less than 1%; conclusion: the die is not fair.  
Right-hand table:  $P = 10\%$ ; conclusion: the die is fair.