

1- eye color, arm span, birth month

2- cost, safety, preservation of product

3- population: Batch of cookies

Sample?: YES

Variable: # of raisins/cookie

4- population: WNBA players

Sample?: NO

Variable: free-throw %

7- A sample that has the same characteristics of the population is a representative sample.

8 - a) 2,145 inline skaters in Boston.

b) Inline skaters in Boston.

9- a)  $\frac{188}{874} = 21.5\%$   
188 → beginners w/no gear  
874 → total skaters w/no gear

b) Guided example: beginners w/no gear  
beginners w/no gear ← 188/874 → total beginning skaters  
Part a: no gear skaters were beginners

10-  $\frac{372}{874} = 42.6\%$   
372 - advanced w/no gear  
874 - total w/no gear

- 11- a) categorical      b) categorical  
c) numerical        d) numerical

12-  $\frac{28,874}{107,510} = 26.8\%$   
28,874 - some college, no degree  
107,510 - total households

13-  $13.3 + 14.7 + 18.9 + 9.4 + 9.3 = 67.6\%$

17. a) age distribution of trout

b) - Sample

- Population is all trout in the lake

- Representative due to sampling different parts of the lake

$$c) \quad 96 - 53 - 29 = \frac{14 \text{ over one year}}{96 \text{ total}} = \boxed{14.62}$$