The following repeating decimal is equal to qhat fraction? 0.545454545...

= 0.54 + 0.0054 + 0.000054 + ...

$a_1 = .54$ $r = .01$

$$S_n = \frac{a_1}{a - r} = \frac{0.54}{1 - .01} \qquad \frac{.54}{.99} = \frac{54}{99} = \frac{6}{11}$$

The following repeating decimal is equal to qhat fraction? 0.81818181...

$.81 + .0081 + .000081$

$a_1 = .81$

$r = .01$

$$\frac{.81}{1 - .01} = \frac{.81}{.99} = \frac{81}{99} = \frac{9}{11}$$

$.137137137137\ldots$

$.137 + .000137 + .000000137 + \ldots$

$a_1 = .137$ $r = .001$ $\qquad \frac{.137}{1 - .001} = \frac{137}{999}$

Find each probability as a fraction

| | Carrots | Peas | Beans | Corn | Total |
|---|---|---|---|---|---|
| Adult | 14 | 8 | 9 | 20 | 51 |
| Child | 19 | 2 | 4 | 25 | 50 |
| Total | 33 | 10 | 13 | 45 | 101 |

P(Carrots or Child) $= \frac{64}{101}$

P(Adult and Corn) $\frac{20}{101}$

P(Peas or Beans) $\frac{23}{101}$

P(Corn and Carrots) $\frac{0}{101}$

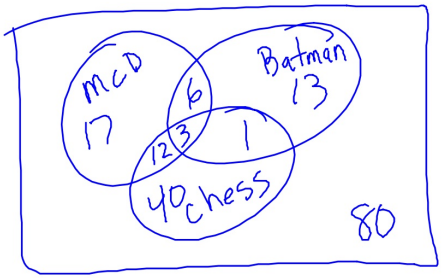
P(Child | Peas) $= \frac{2}{10}$

P(Beans | Adult) $= \frac{9}{51}$

The probability that you win the 100 yard dash at the track meet is $\frac{5}{8}$. The probability that you win the shotput at the track meet is $\frac{2}{13}$. Find the following probability as a percent to the nearest hundredth.

$\frac{5}{8} + \frac{2}{13} - \frac{5}{8} \cdot \frac{2}{13}$

68.23%




$P(\text{chess but not Batman}) = \frac{52}{172}$

$P(\text{NOT McD}) = \frac{134}{172}$

they are out of shape.

a. Find the sample proportion to the nearest whole percent.

$\frac{624}{1200} = 52\%$

b. Find the margin of error to the nearest whole percent.

$\frac{1}{\sqrt{1200}} \quad \pm 3\%$

c. Find the interval that most likely contains the population proportion.

$52\% \pm 3\%$

$49\% \text{ to } 55\%$