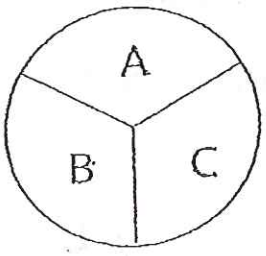
Integrated 2

Name Key

Dart Boards

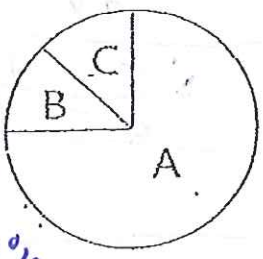
A dart is randomly thrown at a dartboard. Write the probabilities as a fraction first, then a percent if you'd like.



1) P (A) $= \frac{1}{3} = 33.\overline{3}\%$

2) P (NOT A) $= \frac{2}{3} = 66.\overline{6}\%$

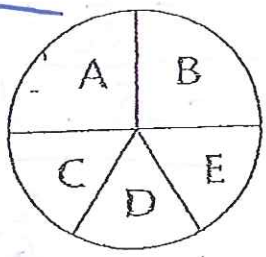
3) P (A or B) $= \frac{2}{3} = 66.\overline{6}\%$



4) P (A) $= \frac{270}{360} = \frac{3}{4} = 75\%$

5) P (B or C) $= \frac{90}{360} = \frac{1}{4} = 25\%$

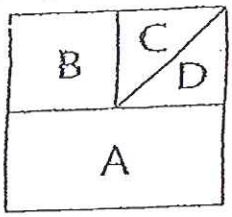
6) P (NOT B) $= \frac{315}{360} = \frac{63}{72} = 87.5\%$



7) P (A) $= \frac{90}{360} = \frac{1}{4} = 25\%$

8) P (C) $= \frac{60}{360} = \frac{1}{6} = 16.\overline{6}\%$

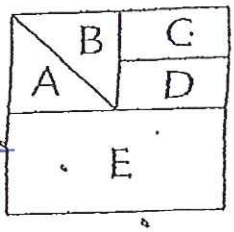
9) P (C or D) $\frac{120}{360} = \frac{1}{3} = 33.\overline{3}\%$



10) P (A) $= \frac{4}{8} = \frac{1}{2}$

11) P (D or C) $= \frac{2}{8} = \frac{1}{4}$

12) P (NOT D) $= \frac{7}{8}$



13) P (E) $= \frac{4}{8} = \frac{1}{2}$

14) P (A or B) $= \frac{2}{8} = \frac{1}{4}$

15) P (A) $= \frac{1}{8}$

16) P (A or D) $= \frac{2}{8} = \frac{1}{4}$

17) If you were playing darts and someone agreed to pay you $10.00 for hitting section B, which one of the 5 dartboards from above would you want to use? Why?

use the Dartboard from #1. It has a bigger area to hit.

Slips of paper are numbered from 1-25 and placed in a hat. One strip is drawn at random. Each strip is replaced before the next number is drawn. Write the probabilities as a fraction first, then a percent if you'd like.

18) P (even number) $= \frac{12}{25} = .48 = 48\%$

19) P (more than 20) $= \frac{5}{25} = \frac{1}{5} = 20\%$

20) P (less than 5 or more than 20) $= \frac{9}{25} = .36 = 36\%$

21) P (prime number) $= \frac{9}{25} = .36 = 36\%$

22) P (multiple of 5) $= \frac{5}{25} = \frac{1}{5} = 20\%$

23) P (prime and less than 10) $= \frac{5}{25} = \frac{1}{5} = 20\%$

24) P (odd number and greater than 15) $= \frac{5}{25} = \frac{1}{5} = 20\%$