

Pie Charts

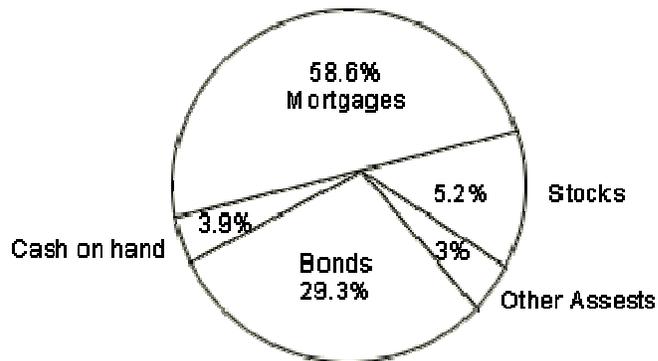
Introduction:

In this type of data interpretation, the total quantity is distributed over 360 degrees and only one parameter can be depicted in it like Percentages of various things with respect to the total quantity, Shares contributed by various companies for a particular quantity etc.

The value of various elements can be depicted in pie chart in degrees such that

$$100\% = 360 \Rightarrow 1\% = 3.6 \text{ degree}$$

A SAVINGS BANK IN A LARGE CITY PUBLISHED THE FOLLOWING GRAPH FOR ITS DEPOSITORS, HOW YOUR SAVINGS WORK FOR YOU.



1. About how many degrees (to the nearest degree) are in the angle of the sector representing mortgages?

- A. 59 B. 106 C. 211 D. 246 E. 318

Answer : option C

Explanation : Mortgages --> 58.6%

Therefore 58.6% of 360 degrees = $(58.6/100) \times 360 = (0.586) (360) = 210.9$ degrees.

This is nearest to 211. Therefore the answer is C.

2. The annual rate of interest from "other assets" is 4.8%. If the total assets of the bank are 57.6 million dollars, what is the annual income (in dollars) from "other assets"?

- A. 82,944 B. 921,600 C. 1,728,000 D. 2,764,800 E. 3,600,000

Answer : option A

Explanation : Total assets = \$57.6 million.

Other assets=3% of total assets = \$ 1.728 million.

4.8% of \$1.728 million = \$ 0.082944 million or \$ 82944.

3. The average annual interest on mortgage investments is $m\%$ and the average annual interest on the mortgage bond investment is $b\%$. If the annual interest on the bond investment is x dollars, how many dollars are invested in mortgages?

- A. xm/b . B. xb/m . C. $100xb/m$ D. $bx/100m$. E. $200x/b$

Answer : option E

Explanation : Amount invested in bonds = $\$(100x/b)$.

Therefore the amount invested in mortgages must be $\$(58.6/29.3) (100x/b) = \$ 200x/b$.

4. About how many degrees (to the nearest degree) are in the angle of the sector representing cash on hand?

- A. 114 B. 14 C. 140 D. 39 E. 321

Answer : option B

Explanation : (3.9%) of 360 degrees. = $(0.0369) (360) = 14.04$.

This is nearest to 14. Therefore the answer is B.