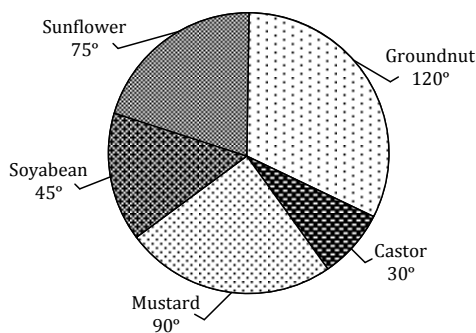


CLASS WORK

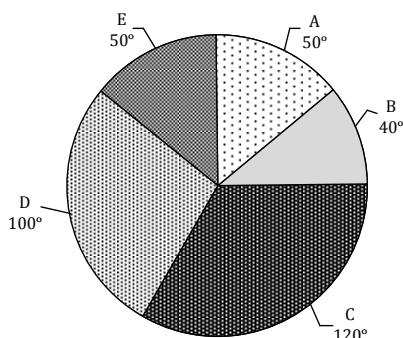
Directions for Q1 to Q5: Answer these questions based on the following pie chart which represents the production of certain types of oil seeds in the year 2008.



Total Production = 540 tonnes

- What is the production of castor seeds? (in tonnes)
(a) 36 (b) 45 (c) 54 (d) 63
- By how much (in tonnes) is the production of soyabean seeds less than that of groundnut seeds?
(a) 75 (b) 85 (c) 92.50 (d) 112.50
- The production of how many types of oil seeds is more than 108 tonnes?
(a) 2 (b) 1 (c) 4 (d) 3
- The production of sun flower seeds was approximately what percentage of the total oil seeds production?
(a) 20% (b) 21% (c) 22% (d) 23%
- If the ratio of the number of hectares in which mustard seeds and sunflower seeds are grown is 7:8, then what is the ratio of production per hectare of mustard and that of sunflower seeds?
(a) 25:14 (b) 36:35 (c) 48:35 (d) 18:7

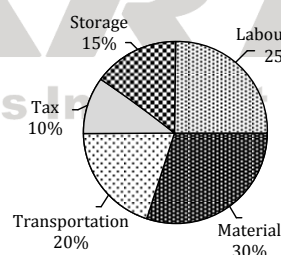
Directions for Q6 to Q10: Answer these questions based on the pie-chart given below which shows the quantity-wise sales distribution of all the production – A, B, C, D and E of the company 'XYZ' in the year 2007.



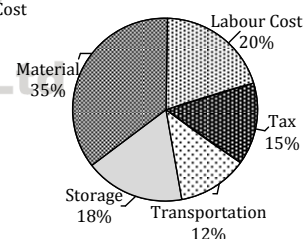
- The sale of product C is how many times that of product B?
(a) 2 times (b) 3 times
(c) 1.5 times (d) 2.5 times
- If 250 units of product A were sold, then how many total units were sold by company XYZ?
(a) 1500 (b) 1200
(c) 1800 (d) 2100
- If from 2007 to 2008, there is a 20% increase in the total number of units sold by the company XYZ and the sale of product C goes up by 25% during the same period, then what will be the angle of the sector representing C if a new pie chart representing the quantity-wise sale of the production of the company XYZ in 2008 is drawn?
(a) 127° (b) 130°
(c) 125° (d) 132°
- In 2007, if a total of 27000 units of company XYZ are sold, then the number of units of product E sold is
(a) 3240 (b) 3750
(c) 3860 (d) None of these
- If 1600 units of product B were sold in 2007 and the total number of units sold by the company in 2008 were 20% more than that in 2007, then how many units were sold by the company in 2008?
(a) 17280 (b) 18360
(c) 15340 (d) 16480

Directions for Q11 to Q15: Study the following pie-charts carefully to answer these questions.

The pie-charts show the percentage distribution of the manufacturing cost (cost price) of articles A and B.



Total manufacturing cost of article A = ₹ 16,200



Total manufacturing cost of article B = ₹ 24,800

- The labour cost incurred in manufacturing B is approximately what percentage more/ less than that of A?
(a) 30% (b) 25% (c) 22% (d) 20%
- If the profit earned by selling A is 25% and that earned by selling B is 20%, then what is the ratio of the selling prices of A and B?
(a) 675:992 (b) 484:1125
(c) 789:1280 (d) 111:237

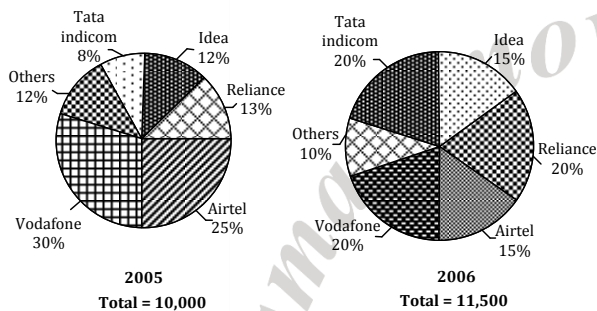
DATA INTERPRETATION – PIE

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13. If the transportation cost incurred in manufacturing A increases by 10%, the material cost decreases by 15%, and all other costs remain the same, then what would be the cost price of A (in Rs.)?
(a) 16870 (b) 15809
(c) 16815 (d) 15795
14. The storage cost of A is what percentage of that of B (approximately)?
(a) 52% (b) 54%
(c) 60% (d) 48%
15. What is the difference between the material costs incurred in manufacturing A and B (in Rs.)?
(a) 4010 (b) 3930
(c) 3820 (d) 3560

Directions for Q16 to Q20: Answer these questions based on the following pie-charts.

The following are the results of a survey about mobile users in a village in the years 2005 and 2006.



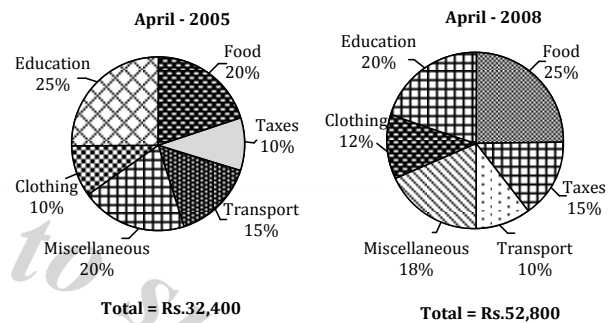
16. The number of Vodafone users in 2006 is what percentage of that in 2005?
(a) $77\frac{4}{5}\%$ (b) $60\frac{4}{5}\%$
(c) $76\frac{2}{3}\%$ (d) Cannot be determined
17. The number of Tata indicom users in 2006 is by what percentage more than that in 2005?
(a) 192.8% (b) 187.5%
(c) 178.6% (d) Cannot be determined
18. What is the ratio of the number of Idea users in 2005 to the number of Airtel users in 2006?
(a) 16:23 (b) 54:61
(c) 47:59 (d) None of these
19. If the total number of mobile users in the village in 2006 was 2300, then proportionately how many people used Airtel in 2005?
(a) 600 (b) 500 (c) 700 (d) 800

20. If in 2007, 20% of the Tata indicom users in 2006 no longer use Tata indicom but shifted to 'Others', then what is the ratio of the number of people who use 'Others' in 2005 to that in 2007 if all other values in 2007 remain the same as in 2006?
(a) 23:10 (b) 12:5
(c) 17:9 (d) None of these

HOME ASSIGNMENT

Directions for Q1 to Q5: Refer pie-charts given below to answer these questions.

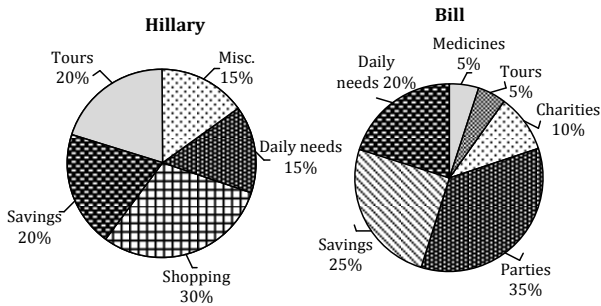
The pie chart gives the distribution of expenses of a family in the given two months.



1. By what percentage did the expenditure on clothing increase from April 2005 to April 2008?
(a) 96.8% (b) 93.6%
(c) 90.8% (d) 95.5%
2. The total expenditure on food and taxes put together in April 2008 exceeded the same in April 2005 by approximately (in Rs.)
(a) 12600 (b) 11400
(c) 10800 (d) 9200
3. If in April 2008 the expenditure on transport increased by 20%, then by approximately what percentage should the expenditure on food be reduced to keep the total expenditure the same?
(a) 12% (b) 6%
(c) 8% (d) 10%
4. If in 2005, the income of the family is 25% more than the expenditure and it is 15% more than the expenditure in April 2008, then find the ratio of the savings in April 2005 to that of April 2008.
(a) 5:4 (b) 16:17
(c) 31:32 (d) 45:44
5. The expenditure in April 2005 is what percentage of that in April 2008?
(a) 63.64% (b) 61.36%
(c) 64.38% (d) 60.29%

Directions for Q6 to Q10: Answer these questions based on the following information.

The annual income of a family of two – Bill and Hillary – is \$100,000. The incomes of Bill and Hillary are in the ratio 2:3. The expenditure of the two members under different heads along with their savings is given in the pie charts.



6. What is the total amount spent on daily needs?
(a) \$16,000 (b) \$18,000
(c) \$17,000 (d) \$19,000
7. The savings of Bill is by what percentage more than the amount spent by Hillary on miscellaneous items?
(a) 9.9% (b) 11.11% (c) 15% (d) 10%
8. Had 10% of Bill's savings been further spent on daily needs, then the expenses for daily needs of the family would have been what percentage of the family annual income?
(a) 18% (b) 17% (c) 19% (d) 20%
9. The expenses by both the persons together under how many needs were more than 15% of the family annual income?
(a) 2 (b) 3 (c) 0 (d) 1
10. If Hillary wants to give 5% of her income to charity, then the minimum number of heads under which she should cut her expenses, if the reduction under any head cannot be more than 10%, is
(a) 1 (b) 4 (c) 3 (d) 2

ANSWER KEY

- | | | | | |
|--------|--------|--------|--------|---------|
| 1. (d) | 2. (b) | 3. (c) | 4. (d) | 5. (b) |
| 6. (c) | 7. (b) | 8. (a) | 9. (a) | 10. (d) |