

- 1) Find the standard deviation of these scores correct to two decimal places.

3, 5, 9, 11, 8, 4

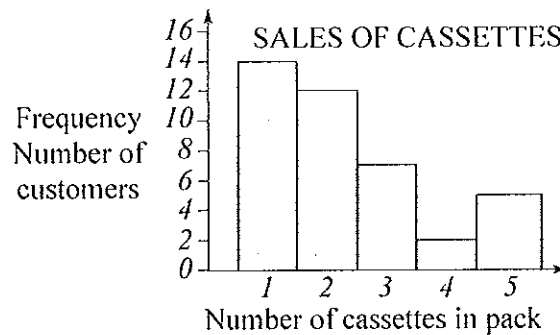
2)

Score	Frequency
5	x
8	7

What value of x would give a mean of 6 for the scores in this frequency distribution table?

3)

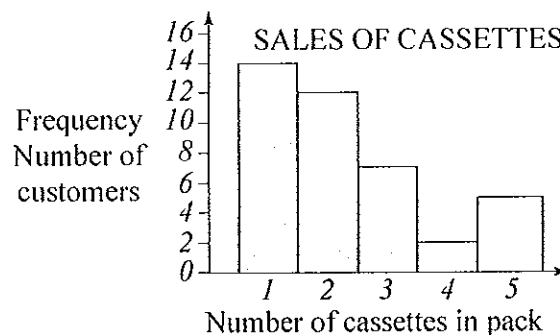
A music store sells blank cassettes in packs that contain either 1, 2, 3, 4, or 5 cassettes. The histogram below shows the sales for one week.



Find the mean number of cassettes sold to each customer.

4)

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5)

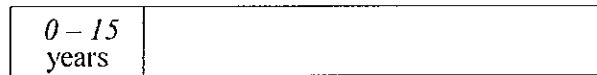
Score	Frequency
4	3
5	6
x	6

Find the value of x if the given set of scores has a mean of 6.

6) PERCENTAGE OF THE AUSTRALIAN POPULATION IN AGE GROUPS

Age (years)	Percentage
0 - 15	22%
16 - 64	66%
65 and over	12%

A bar graph representing this information has been started below. By calculation and measurement, complete the graph.

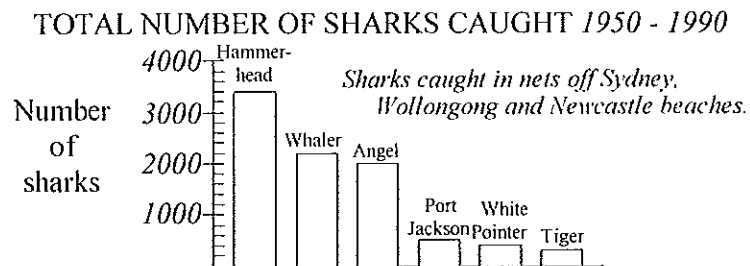


7)

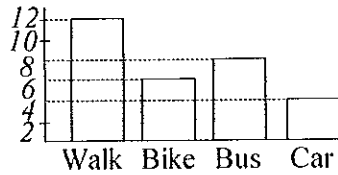
Score	Frequency
6	4
7	5
8	7
9	6
10	3

For this set of scores, find the standard deviation correct to one decimal place.

8) Find the average number of Whaler sharks caught each year.

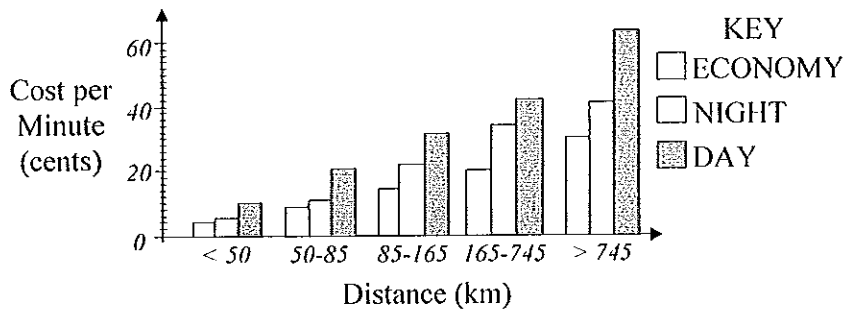


9)



This column graph shows how class 10M travel to school. The information is to be represented on a sector graph. Calculate the size of the angle in the sector representing travel by bus.

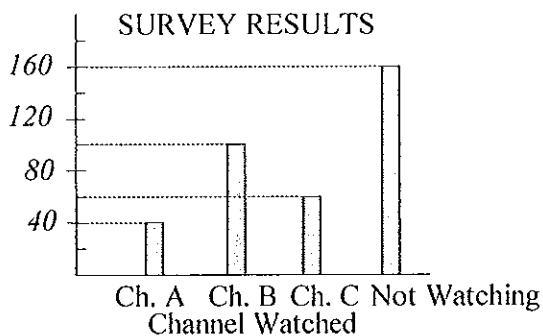
- 10) The graph below represents the cost per minute of a long distance telephone call over various distances at certain times of the day.



Find the cost per minute to call a distance of 200 km at the night rate.

- 11) In January an estate agent sells 5 houses at an average price of \$136 000. In February she sells 3 houses at an average price of \$152 000. Find the average price of all the houses she sold in the two month period.
- 12) All 5 children from a family start at a new school. The total cost of uniforms for the 4 girls is \$260. The uniform for their brother costs \$90. What is the average cost of a uniform for these children?

13)



The graph shows the results of a survey in a town, in which 360 people, chosen at random, were asked which TV channel they had watched at 7 pm the previous evening.

If the town has a population of 24 000, what is the best estimate of the number of people who watched Channel C at that time?

[Answers]

1) → 2·87 »

2) → 14 »

3) → 2·3 »

4) → 2·3 »

5) → 8 »

6)

→

0 – 15 years	16 – 64	65 and over
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7) → 1·2 »

8) → 54 (to the nearest whole number) »

9) → 96° »

10) → 34c »

11) → \$142 000 »

12) → \$70 »

13) → 4000 »