

*Name:* \_\_\_\_\_

1. Classify the following data as one of the following categories:

- A** continuous numerical
- B** discrete numerical
- C** categorical

- (a) Price of petrol
- (b) Type of car driven
- (c) Water temperature
- (d) Length of hair
- (e) Population of a country
- (f) Favourite football team
- (g) Marks for a maths test


2. List the population that would be affected by the following surveys.

- (a) The local council for the town of Walla want to find out if the town needs a library.  
\_\_\_\_\_
- (b) A farmer wants to find out how many of his fruit trees are diseased.  
\_\_\_\_\_
- (c) A school wants to find out how many year 9 students plan to complete year 12.  
\_\_\_\_\_
- (d) The state government wants to find out how many young people have their driving learner's permits.  
\_\_\_\_\_

3. A community centre is deciding whether to install an internet chat room. They intend to conduct a survey.

From the alternatives below, choose which sample group would give the most accurate result and give reasons.

- Sample Group **A** - 100 people chosen randomly
- Sample Group **B** - 100 people between the ages of 15 and 35
- Sample Group **C** - 100 people between the ages of 35 and 60
- Sample Group **D** - 100 people older than 60

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4. Choose one of the surveys from question 2 and describe an appropriate sample group.

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5. At a music concert where three bands played there were 6000 in the audience.

50 people were asked which was their favourite band.

20 chose **Stealth**, 12 chose **Cradle** and the remainder of the 50 chose **Moshy**.

(a) What percentage of the 50 people surveyed chose each band?

<i>Stealth</i>	
<i>Cradle</i>	
<i>Moshy</i>	

(b) Using these percentages, how many people at the concert would have chosen each band as their favourite?

<i>Stealth</i>	
<i>Cradle</i>	
<i>Moshy</i>	