

Please do not write on the subject paper and don't forget to give back the examination paper at the end of the test.

PROBABILITIES

A survey of middle school students asked: What is your favourite winter sport?
The results are summarised below :

Grade	Snowboarding	Skiing	Ice Skating	TOTAL
6th	68		46	
7th		56	70	
8th	59	74		180
TOTAL	211		163	545

All results will be given rounded to the thousandth when needed.

- 1) Fill in the blanks.
- 2) A pupil is randomly selected.
 - a) What is the probability of selecting a pupil whose favourite sport is skiing?
 - b) What is the probability of selecting a 7th grade pupil ?
 - c) What is the probability of selecting a 7th grade pupil whose favourite sport is snowboarding ?
 - d) What is the probability of selecting a 7th grade pupil or a pupil whose favourite sport is snowboarding ?
- 3) If the selected pupil is in 8th grade, what is the probability of selecting a pupil whose favourite sport is Ice Skating ?
- 4) If the selected pupil favourite sport is snowboarding, what is the probability of selecting a pupil in 6th grade ?
- 5) If the selected pupil is not in 8th grade, what is the probability of selecting one pupil whose favourite sport is not Ice skating ?