

# Another Sampling Experiment

Below is some information about musical abilities for 20 fifth-grade students at one school.

Student	In band class	In chorus class	Can sing	Can play an instrument
Angelique	Yes	No	Yes	Yes
Brad	Yes	No	Yes	No
Craig	No	Yes	Yes	Yes
Dai	No	No	No	No
Enrique	Yes	No	Yes	Yes
Fiona	No	Yes	Yes	No
Gwen	Yes	No	No	Yes
Harry	No	Yes	Yes	Yes
Ian	No	No	Yes	No
Juanita	No	Yes	Yes	No
Karen	Yes	No	No	Yes
Lin	No	No	No	No
Mitch	Yes	No	Yes	Yes
Nancy	No	Yes	Yes	No
Ollie	No	Yes	Yes	Yes
Pat	Yes	No	No	Yes
Quentin	Yes	No	No	Yes
Revonda	No	Yes	Yes	No
Sari	No	Yes	No	No
Tosho	No	No	No	Yes

- 1 Ursula asked these 20 students whether they could play an instrument. Use the answers above to estimate what part of fifth-grade students in the school can play an instrument. Write your answer as a fraction, decimal, or percent.
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- 2 Victor only surveyed some of these 20 students, and he said that about  $\frac{7}{8}$  of the fifth-graders could play an instrument! Suggest a way in which Victor's sample could be *biased* toward playing an instrument.
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