Math Practice - Grade 7

M9 Statistics: sampling and comparing populations - Representative or biased sample?

M9 7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4

Name: _____ Date: _____

Is the sample representative or biased? Circle it.

Example: Mr. Lee picks 20 names at random from the school list to ask about lunch. Is the sample representative or biased?

How: A random sample tends to represent the whole population, because every member has a fair chance of being picked. A sample of friends, or of one class only, leaves people out.

Representative

Biased

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1 **Sara asks the students sitting near her in the cafeteria about the new menu. Is the sample representative or biased?**

Representative Biased

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2 **A survey picks 30 students at random from all grades to ask about homework. Is the sample representative or biased?**

Representative Biased

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3 **A librarian asks every 10th student who walks into the library about reading. Is the sample representative or biased?**

Representative Biased

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M9 Statistics: sampling and comparing populations - Representative or biased sample?

M9 7.SP.1, 7.SP.2, 7.SP.3, 7.SP.4

Name: _____ Date: _____

Is the sample representative or biased? Circle it.

Example: A teacher uses a random number list to pick 25 students from the whole grade. Is the sample representative or biased?

How: A random sample tends to represent the whole population, because every member has a fair chance of being picked. A sample of friends, or of one class only, leaves people out.

Representative

Biased

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1 **Leo asks only the students in his own class how they travel to school. Is the sample representative or biased?**

Representative Biased

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2 **Ana asks the first 12 students who arrive at school about breakfast. Is the sample representative or biased?**

Representative Biased

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3 **Mr. Lee picks 20 names at random from the school list to ask about lunch. Is the sample representative or biased?**

Representative Biased

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How: A random sample tends to represent the whole population, because every member has a fair chance of being picked. A sample of friends, or of one class only, leaves people out.

Representative

Biased

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1 **A teacher uses a random number list to pick 25 students from the whole grade. Is the sample representative or biased?**

Representative Biased

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2 **Tom asks only the students who ride his bus what time school should start. Is the sample representative or biased?**

Representative Biased

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3 **A principal surveys 40 students chosen at random from the school register. Is the sample representative or biased?**

Representative Biased