

**GRADE 7 · STATISTICS & PROBABILITY · EXIT TICKET****DRAWING INFERENCES FROM RANDOM SAMPLES**

Today's goal: I can use data from a random sample to draw inferences about a population with an unknown characteristic, generate multiple samples (or simulated samples) of the same size to gauge the variation in estimates, generate multiple samples of categorical data of the same size to gauge the variation in estimates, generate multiple samples (or simulated samples) of the same size of numerical data to gauge the variation in estimates and understand that sample statistics are estimates of population statistics but are not the same.

**MILD****Tan the Turtle:** Slow and steady. Warm up!

- 1 A random sample of 20 students finds 12 own a pet. What proportion is that, as a percentage?

Answer

**MEDIUM****Digit the Fox:** Stretch your brain.

- 2 Use it to estimate how many of the school's 500 students own a pet.

Answer

- 3 Four more samples of 20 give 9, 11, 14 and 10. Find the mean of all five results, and the spread between highest and lowest.

Answer

**SPICY****Blaze the Dragon:** Bring the heat!

- 4 Which estimate for the school should you report, and why is the spread in question 3 useful rather than a problem?

Answer



I can do this skill: ☐ Not yet ☐ Almost ☐ Got it!