Agenda

A few tidbits before reviewing
for the test

A note about Strive for 5

← See your LCQ

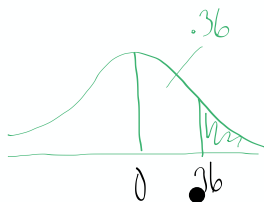Review for Tomorrow's test

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tricky
89 cockroaches

.36

.14

?

50   55

weight (s)
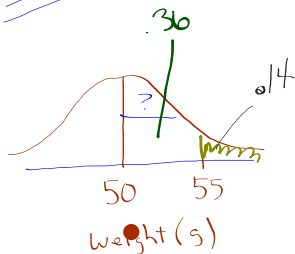
$$Z = \frac{Value - mean}{SD}$$

$$.36 = \frac{55 - 50}{SD}$$

.36

0   36

Strange
answers

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normal cdf $\left(\underset{\text{Lower}}{12}, \underset{\text{Upper}}{1000}, \underset{\text{mean}}{9.5}, \underset{\text{SD}}{.55}\right)$

$= 2.7 \bullet E - 6$??

2.7×10^{-6} .0000027

About $\bullet\bigcirc$ _____ % of kids get

12 or more hours of sleep.

Percentile Summary Statements,
which is a correct <u>interpretation</u>?

✓   The 80th percentile is at 25.28 minutes.
     (true but not an interpretation.)

✓   About 80% of response times are less than
     25.28 minutes

Strive for 5

crossword puzzle

Reviewing   For each section
for   [2.1, 2.2]
TESTS

Summary
• Check for underst.
   Problems with
   answers

• Multiple Choice
   Practice
• FRAPPY!

2
Practice   We'll do these
AP Exams   in March.

Strive for 5
- Available to check out
- <u>CAN'T</u> write in it.
- Keep at home

ch^2
<u>Homework</u>
due tomorrow ━━ out of (20)
•• up through yesterday's assignment.

Frappy!

- real benefits of doing and then comparing to actual rubric
- benefits – for tomorrow's test
  – moving forward.

When finished

- Look at the Model Solution
- Look at the Scoring Rubric and score your
  a, b, c, and d

- Then score the 2 samples
  and read the Commentary

Review Options

- Review Exercises [PP 147-148]
  - has video solutions

- Ch. 2 AP Stats Practice Test [PP 148-150]

- Strive for 5

The distribution of scores on a recent test closely followed a Normal distribution with a mean of 22 points and a standard deviation of 4 points.

(a) What proportion of the students scored at least 25 points on this test?

g

(b) What is the 31st percentile of the distribution of test scores?

(c) The teacher wants to transform the test scores so that they have an approximately Normal distribution with a mean of 80 points and a standard deviation of 10 points. To do this, she will use a formula in the form:

$$new\ score = a + b\ (old\ score)$$

Find the values of a and b that the teacher should use to transform the distribution of test scores.

(d) Before the test, the teacher gave a review assignment for homework. The maximum score on the assignment was 10 points. The distribution of scores on this assignment had a mean of 9.2 points and a standard deviation of 2.1 points. Would it be appropriate to use a Normal distribution to calculate the proportion of students who scored below 7 points on this assignment? Explain.