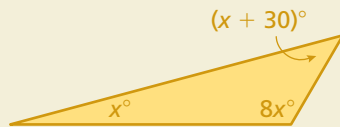


9 Standardized Test Practice

- Mercury's distance to the Sun is approximately 5.79×10^7 kilometers. Write this distance in standard form.

A. 5,790,000,000 km C. 57,900,000 km
 B. 579,000,000 km D. 5,790,000 km
- The steps Jim took to answer the question are shown below. What should Jim change to correctly answer the question?

How many degrees are in the largest angle in the triangle below?



$$x + 8x + x + 30 = 180$$

$$10x = 150$$

$$x = 15$$

- The left side of the equation should equal 360° instead of 180° .
 - The sum of the acute angles should equal 90° .
 - Evaluate the smallest angle when $x = 15$.
 - Evaluate the largest angle when $x = 15$.
- Which expression is equivalent to the expression below?

$$2^{4^3}$$

- | | |
|-------------|--------|
| A. 2^{12} | C. 48 |
| B. 4^7 | D. 128 |

- Your mean score for four rounds of golf was 71. Your scores on the first three rounds were 76, 70, and 70. What was your score on the fourth round?



- The temperature in Frostbite Falls has never been above 38 degrees Fahrenheit. Let t represent the temperature, in degrees Fahrenheit. Write this as an inequality.

F. $t < 38$	H. $t > 38$
G. $t \leq 38$	I. $t \geq 38$

Test-Taking Strategy Use Intelligent Guessing

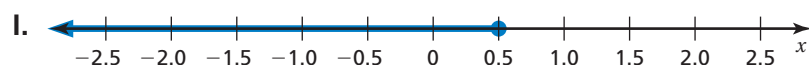
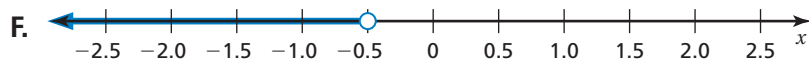
Cats were first tamed $3 \cdot 2^{10}$ years ago in Egypt. How long ago was that?
 (A) 3000 (B) 3072 (C) 5000 (D) 40



"It can't be 40 or 5000 because they aren't divisible by 3. So, you can **intelligently guess** between 3000 and 3072."

10. Which graph represents the inequality shown below?

$$x - 1.5 \leq -1$$



11. Find $(-2.5)^{-2}$.



12. The director of a research lab wants to present data to donors, showing how a great deal of donated money is used for research and how only a small amount of money is used for other expenses. Which type of display is best suited for showing this data?

A. box-and-whisker plot

C. line graph

B. circle graph

D. scatter plot

13. You earn \$14.75 per hour at your job. Your goal is to earn more than \$2000 next month. If you work h hours next month, which inequality represents this situation algebraically?

F. $14.75 + h > 2000$

H. $14.75h > 2000$

G. $14.75 + h \geq 2000$

I. $14.75h \geq 2000$