Name: _____   Teacher: _____   Block: _____

REFERENCE _(This reference sheet is given on the SAT!)_
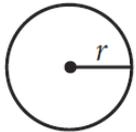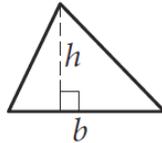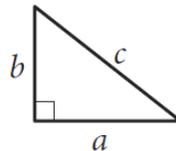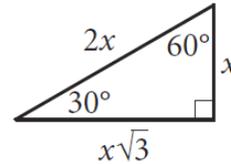

$A = \pi r^2$ $A = \ell w$ $A = \dfrac{1}{2}bh$ $c^2 = a^2 + b^2$ Special Right Triangles

$C = 2\pi r$
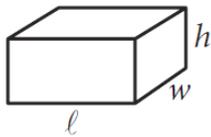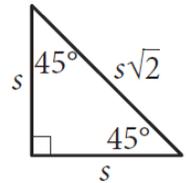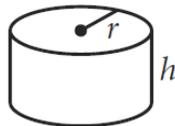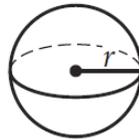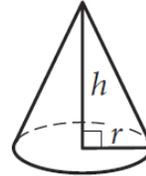
$V = \ell wh$ $V = \pi r^2 h$ $V = \dfrac{4}{3}\pi r^3$ $V = \dfrac{1}{3}\pi r^2 h$ $V = \dfrac{1}{3}\ell wh$
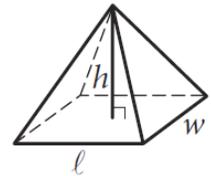
The number of degrees of arc in a circle is 360.

The number of radians of arc in a circle is 2π.

The sum of the measures in degrees of the angles of a triangle is 180.

16

$$y < -x + a$$
$$y > x + b$$

In the xy-plane, if $(0,0)$ is a solution to the system of inequalities above, which of the following relationships between a and b must be true?

A) $a > b$

B) $b > a$

C) $|a| > |b|$

D) $a = -b$

17

A food truck sells salads for $6.50 each and drinks for $2.00 each. The food truck's revenue from selling a total of 209 salads and drinks in one day was $836.50. How many salads were sold that day?

A)   77

B)   93

C)   99

D) 105

Which of the following represents the relationship between h and C ?

A) $C = 5h$

B) $C = \dfrac{3}{4}h + 5$

C) $C = 3h + 5$

D) $h = 3C$

Questions 18 and 19 refer to the following information.

Total Cost of Renting
a Boat by the Hour
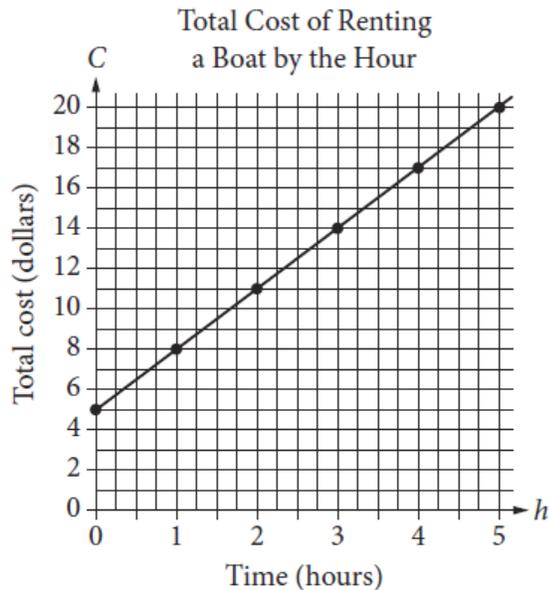
The graph above displays the total cost C, in dollars, of renting a boat for h hours.

18

What does the C-intercept represent in the graph?

A) The initial cost of renting the boat

B) The total number of boats rented

C) The total number of hours the boat is rented

D) The increase in cost to rent the boat for each additional hour

20

Alma bought a laptop computer at a store that gave a 20 percent discount off its original price. The total amount she paid to the cashier was p dollars, including an 8 percent sales tax on the discounted price. Which of the following represents the original price of the computer in terms of p ?

A) $0.88p$

B) $\dfrac{p}{0.88}$

C) $(0.8)(1.08)p$

D) $\dfrac{p}{(0.8)(1.08)}$

TLC Stamp