

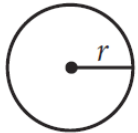


Titan Learning Center
Mathematics SAT Prep
Week 1 Set B



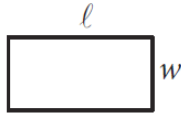
CALCULATOR ALLOWED – Multiple Choice

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

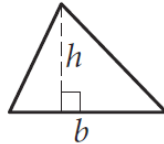


$$A = \pi r^2$$

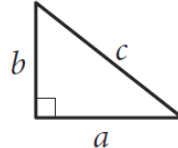
$$C = 2\pi r$$



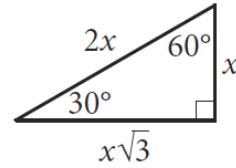
$$A = \ell w$$



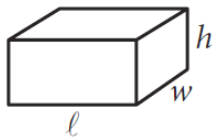
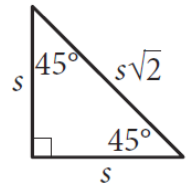
$$A = \frac{1}{2}bh$$



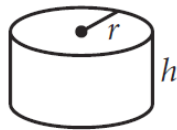
$$c^2 = a^2 + b^2$$



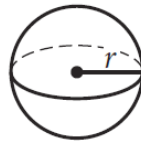
Special Right Triangles



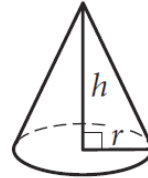
$$V = \ell wh$$



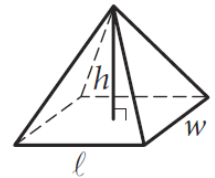
$$V = \pi r^2 h$$



$$V = \frac{4}{3}\pi r^3$$



$$V = \frac{1}{3}\pi r^2 h$$



$$V = \frac{1}{3}\ell wh$$

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.

1

$$3x + x + x + x - 3 - 2 = 7 + x + x$$

In the equation above, what is the value of x ?

- A) $-\frac{5}{7}$
- B) 1
- C) $\frac{12}{7}$
- D) 3

2

The width of a rectangular dance floor is w feet. The length of the floor is 6 feet longer than its width. Which of the following expresses the perimeter, in feet, of the dance floor in terms of w ?

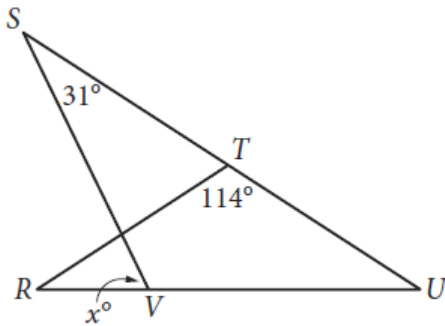
- A) $2w + 6$
- B) $4w + 12$
- C) $w^2 + 6$
- D) $w^2 + 6w$

The formula below is often used by project managers to compute E , the estimated time to complete a job, where O is the shortest completion time, P is the longest completion time, and M is the most likely completion time.

$$E = \frac{O + 4M + P}{6}$$

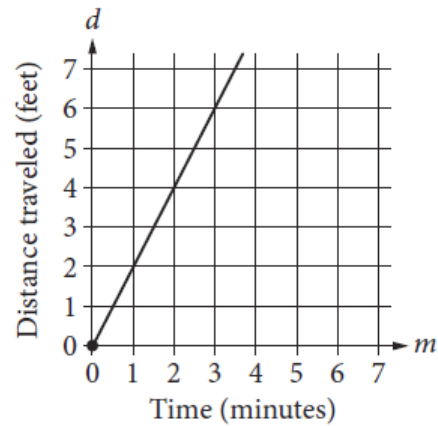
Which of the following correctly gives P in terms of E , O , and M ?

- A) $P = 6E - O - 4M$
- B) $P = -6E + O + 4M$
- C) $P = \frac{O + 4M + E}{6}$
- D) $P = \frac{O + 4M - E}{6}$



In the figure above, $RT = TU$. What is the value of x ?

- A) 72
- B) 66
- C) 64
- D) 58



The graph above shows the distance traveled d , in feet, by a product on a conveyor belt m minutes after the product is placed on the belt. Which of the following equations correctly relates d and m ?

- A) $d = 2m$
- B) $d = \frac{1}{2}m$
- C) $d = m + 2$
- D) $d = 2m + 2$

TLC Stamp

