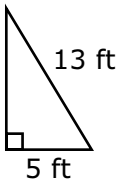
22 The diameter of an asteroid is 34,800 kilometers (km). What is the diameter of the asteroid in scientific notation?

_____ km

23 A ramp is constructed with the given dimensions. What is the height of the ramp?



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

_____ ft

24 An online store sells books for $14.55 each. For each order, there is a one-time shipping and handling fee of $2.35. Which expression represents the cost of ordering x books?

A $x + 14.55 + 2.35$

B $14.55x + 2.35$

C $(14.55 + 2.35)x$

_____

25 A cylindrical can has a radius of 50 centimeters (cm) and a height of 10 cm. What is the volume of the can?

Note: $\pi = 3.14$
$V = \pi r^2 h$

_____ cm^3

26 Write the correct answer as an integer in the blank.

$2^3 + 6^1 =$ _____

27 Solve for the value of x.

$$\frac{x + 4}{3} = 4$$

_____

28 A bag contains 50 balls, 30 of which are red. Evan takes a ball from the bag at random. What is the probability that he will take out a red ball? Express the answer as a percent.

_____ %

29 Simplify the expression.

$10^2 + 3(2 - 1) - 60$

_____

30 On a blueprint, the dimensions of a park are 23 centimeters (cm) by 32 cm. The blueprint uses a scale of 1 cm = 5 meters (m). What are the actual dimensions of the park?

_____ m by _____ m