

Titan Learning Center
Mathematics ACT Prep
Set B-Week 5

Solve each problem, circling the correct answers. Remember that figures are not necessarily drawn to scale.

1. What is the least common multiple of 70, 60, and 50 ?

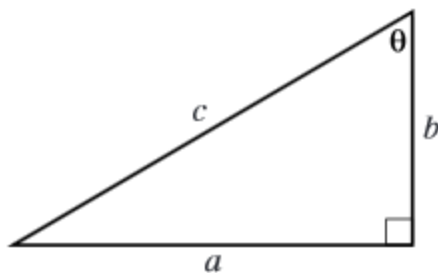
F. 60
G. 180
H. 210
J. 2,100
K. 210,000

2. Hot Shot Electronics is designing a packing box for its new line of Acoustical Odyssey speakers. The box is a rectangular prism of length 45 centimeters, width 30 centimeters, and volume 81,000 cubic centimeters. What is the height, in centimeters, of the box?

A. 75
B. 60
C. 48
D. 27
E. 18

3. The dimensions of the right triangle shown below are given in feet. What is $\sin \theta$?

F. $\frac{a}{b}$
G. $\frac{a}{c}$
H. $\frac{b}{c}$
J. $\frac{b}{a}$
K. $\frac{c}{a}$



4. The length of a rectangle is 3 times the length of a smaller rectangle. The 2 rectangles have the same width. The area of the smaller rectangle is A square units. The area of the larger rectangle is kA square units. Which of the following is the value of k ?

F. $\frac{1}{9}$

G. $\frac{1}{3}$

H. 1

J. 3

K. 9

5. A group of cells grows in number as described by the equation $y = 16(2)^t$, where t represents the number of days and y represents the number of cells. According to this formula, how many cells will be in the group at the end of the first 5 days?

- A. 80
B. 160
C. 400
D. 512
E. 1,280

TLC Stamp

