This print-out should have 9 questions. Multiple-choice questions may continue on the next column or page – find all choices before answering.
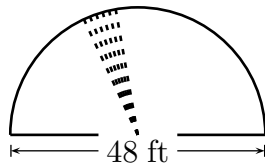
001   10.0 points

Jerry bought 3 cassette tapes that cost $11.74 each.

What was the total cost of the cassette tapes, not including tax?

Answer in units of dollars.

002   10.0 points

A sprinkler watered an area of grass shaped like half a circle.

About how many square feet of grass were watered? Use $\pi \approx 3.14$.

Answer in units of ft^2.

003 (part 1 of 3) 10.0 points

You have two fish tanks. The first has a length of 7 ft, a width of 4 ft, and a height of 1 ft. The second has length 7 ft, width 5 ft, and height 6 ft. Write an expression that represents the amount of water in cubic feet both tanks will hold.
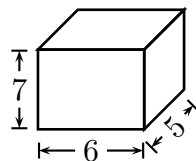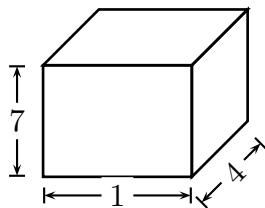
How much water will the first tank hold?

Answer in units of ft^3.

004 (part 2 of 3) 10.0 points

How much water will the second tank hold?

Answer in units of ft^3.

005 (part 3 of 3) 10.0 points

How much more will the larger tank hold?

Answer in units of ft^3.

006   10.0 points

Franco is a billboard painter. He estimated that a billboard he was painting was between 40 and 60 feet tall. He estimated the billboard's width to be between 90 and 130 feet.

Based on Franco's estimates, which is the most reasonable estimate of the area of the billboard?

1. More than 20400 ft^2

2. Between 7800 ft^2 and 12000 ft^2

3. Between 16200 ft^2 and 20400 ft^2

4. Less than 7800 ft^2 and 15400 ft^2

5. Between 12000 ft^2 and 16200 ft^2

007   10.0 points

The table shows the approximate surface area, in millions of square miles, of the world's largest oceans.

Ellen's Distance Chart

| Ocean	Surface Area (millions of square miles)
Arctic	5.4
Atlantic	33.4
Indian	28.3
Pacific	64.0

About how many times larger is the surface of the Indian Ocean than the surface area of the Pacific Ocean?

1. 6 to 7

2. 9 to 10

3. 7 to 13

4. 6 to 13

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008 (part 1 of 2) 10.0 points
The drawing below shows a 3-dimensional view of a rectangular solid made of 1-inch cubes. A number of the cubes are missing as can be seen in the figure below.
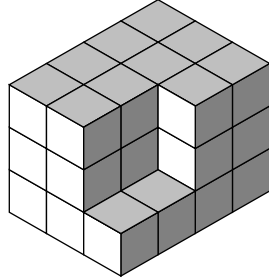
What fractional part of the rectangular solid is missing?

1. $\dfrac{4 \text{ cu in}}{32 \text{ cu in}} = \dfrac{4}{32}$

2. $\dfrac{32 \text{ cu in}}{36 \text{ cu in}} = \dfrac{32}{36}$

3. $\dfrac{4 \text{ cu in}}{36 \text{ cu in}} = \dfrac{4}{36}$

4. $\dfrac{28 \text{ cu in}}{36 \text{ cu in}} = \dfrac{28}{36}$

5. $\dfrac{4 \text{ cu in}}{28 \text{ cu in}} = \dfrac{4}{28}$

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009 (part 2 of 2) 10.0 points
What is the decimal equivalent of the fractional part that is present in the original figure?