

Relative error is measured as a percentage difference from the accepted or "correct" measurement. **POD #31**

A group of science students determined that the measure of a liquid volume was 438 mL. The actual value is 425 mL. What is the relative error?

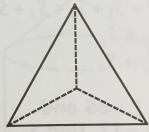
36

The actual dimensions of a square are 10 cm by 10 cm. A student measures the square as 9.9 cm by 10.1 cm. Will they get the area right? Justify your answer! **POD #32**

37

Students in physics class determine experimentally that the acceleration of gravity is 9.5 m/s^2 . The accepted value is 9.8 m/s^2 . What is their relative error? **POD #33**

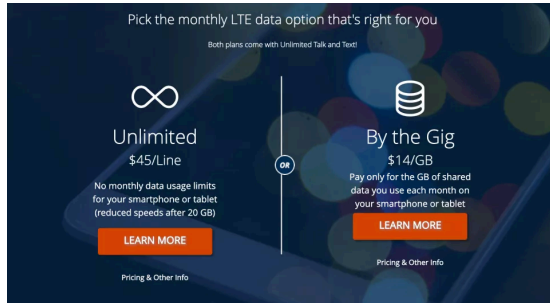
38

<p>1. Reason.</p> <p>What comes next in the pattern?</p> <p>ABCDEF, ABCDFE, ABCFDE, ABFCDE, <u> ? </u>,</p>	<p>POD #34</p> <p>Describe the pattern in words</p>
<p>2. Solve.</p> $K = \frac{n(n+1)}{2}$ $L = m^2$ <p>If $n=9$ and $m=7$, find $L - K$.</p>	<p>3. Sketch.</p>  <p>Name this shape</p>

39

POD #35

State your assumptions
Justify your answer
Answer the question

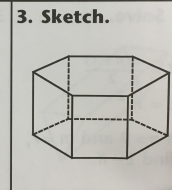


40

POD #36

1. Reason.
You are facing north. You turn 90° left, then 90° left again, then about face. Which direction are you facing?

2. Solve.
 $P = S_1 + S_2 + S_3 + S_4$
 $S_1 = S_2$
 $S_3 = S_4$
If $P = 86$ and $S_2 = 17$, find S_4 .



Name this shape

41

How much does it cost to feed one person (say, for example, you) for one day?

POD #37

State your assumptions and any relevant information and justify your answer with math.

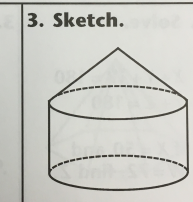
You MAY use your phones to look up information related to this problem.

42

POD #38

1. Reason.
You are facing south. You turn 90° right, then about face, then turn 90° right again. Which direction are you facing?

2. Solve.
 $R = \frac{1}{2}(a + b)$
If $R = 24$ and $a = 13$, find b .



43

Make a graph of Yukon's minimum wage for the past seven years. **POD #39**

Is there a correlation?
Indirect or direct relationship?
Do you think the relationship is linear?

You MAY use your phone to look up data for this problem.

44

Use your data from POD #39 to determine the annual rate of change of the Consumer Price Index (CPI) as a percent. **POD #40**

45