## 2.6 Percent Problem Solving DAY TWO CYU

☑ Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake **H** Use when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

NUse when a question was not even attempted

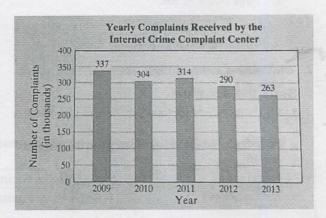
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Percent of	1 - 2	1 - 2	1 - 2
Increase/Decrease		and countries own of syconomic se-	win backet recent on
Mark-up/Discount	3	3	3
Solving Percent Equations	4 - 10	4 - 9	4 – 9, 11

Show all work to earn full credit, and use appropriate units.

- Use the graph to the right to answer the following questions.
  - The number of Internet-crime complaints decreased from 2012 to 2013. Find the percent of decrease. Round to the nearest tenth of a percent.

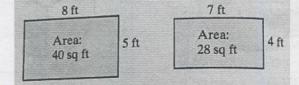
9.3%

 The number of Internet-crime complaints decreased from 2011 to 2012. Find the percent of decrease. Round to the nearest tenth of a percent.



## 7.6%

- 2. Use the images provided to find the percent of decrease in area.
  - a. By decreasing each dimension by 1 unit, the area of a rectangle decreased from 40 square feet (on the left) to 28 square feet (on the right). Find the percent of decrease in area.



30%

b. By decreasing the length of the side by one unit, the area of a square decreased from 100 square meters to 81 square meters. Find the percent of decrease in area.

19%

Area:	Area:
100 sq m	81 sq m

3. Solve each problem dealing with mark-up or discount. Show work for full credit, and use appropriate units. a. Find the original price of a pair of shoes if the sale price is \$78 after a 25% discount. b. Find the original price of a popular pair of shoes if the increased price is \$80 after a 25% increase.

c. Find last year's salary if, after a 4% pay raise, this year's salary is \$44,200. \$42,500

d. Find last year's salary if, after a 3% pay raise, this year's salary is \$55,620.

Solve. If needed, round money amounts to two decimal places and all other amounts to one decimal place.

4. Find 23% of 20.

7. The number 56.25 is 45% of what number?

5. Find 140% of 86.

8. The number 144 is what percent of 480?

6. The number 40 is 80% of what number?

9. The number 42 is what percent of 35?

120%

10. Fill in the WORK/Set-up & percent columns in the table below. The table contains a worked out example.

	Top Cranberry-Producing States	in 2014 (in millions of pour	ds)
State	Millions of Pounds	WORK – Set-up	% of Total (round to nearest %)
Wisconsin	539	539 857	63%
Oregon	40	40 857	5°/6
Massachusetts	206	206	2 Ц °/.
New Jersey	56	56 857	7%
Vashington	16	857 16 857	2%
TOTAL	857	157	101%

was the total for the percent column not equal to 100%, answer in a complete sentence?

Rounding error

CYU Reflection: How far can you go: basic, intermediate, or advanced?

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

