

Name _____

3-9A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 215–219 for objectives.

SKILLS Objective C

In 1-8, evaluate in your head.

1. $\lceil 8.2 \rceil =$ _____
2. $\lceil 8.2 \rceil =$ _____
3. $\lfloor -1.3 \rfloor =$ _____
4. $\lceil -\pi \rceil =$ _____
5. $\lfloor 10\pi \rfloor =$ _____
6. $\lceil 6 + \pi \rceil =$ _____
7. $\lfloor \sqrt{17} \rfloor =$ _____
8. $\lceil 2 - \sqrt{5} \rceil =$ _____
9. If $f(x) = \lfloor x \rfloor$, for what values of x is $f(x) = 4$? _____

USES Objective K

10. **Multiple Choice** Betsy's Bottled Beverages bottles root beer. There are 24 bottles in a Big Box. If the bottling plant produces b bottles on a given day, how many Big Boxes can Betsy fill? _____
 A $\lfloor 24b \rfloor$ B $\lceil 24b \rceil$ C $\lfloor \frac{b}{24} \rfloor$ D $\lceil \frac{b}{24} \rceil$
11. Postage rates for first-class mail in 2008 were 41¢ for the first ounce and 17¢ for each additional ounce. Write an expression giving the cost of mailing a letter weighing w ounces.

12. Each school bus holds n students. m students want to take the bus to the State Championship soccer game. How many busses are needed? _____

REPRESENTATIONS Objective N

13. A parking garage charges \$2.50 for the first half-hour of parking and 50¢ for each additional half-hour.
 - a. What does it cost to park for three minutes? _____
 - b. What does it cost to park for 60 minutes? _____
 - c. What does it cost to park for m minutes when $90 < m \leq 120$? _____
 - d. Graph the parking cost for any amount of time up to two hours at the right.

