Practice

Round the red number to one end of the line.

1.
```
200  210  220  230  240  250  260  270  280  290  300
```

2.
```
8            8.5              9
```

3.
```
0.5          0.55             0.6
```
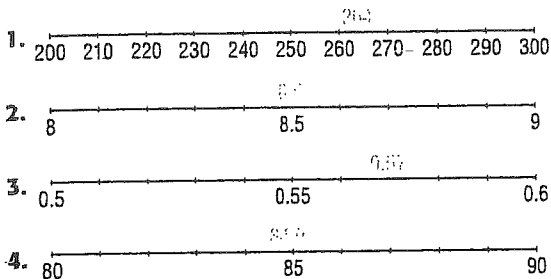
4.
```
80           85               90
```

Round to the nearest ten.

5. 26   6. 142   7. 201

8. 1265   9. 374   10. 505

Round to the nearest hundred.

11. 862   12. 942   13. 658

14. 2432   15. 957   16. 4669

Round to the nearest thousand.

17. 3417   18. 6814   19. 39 600

20. 43 578   21. 57 209   22. 24 560

Round to the nearest ten thousand.

23. 34 456   24. 68 900   25. 85 200

26. 203 000   27. 707 000   28. 605 111

Round to the stated place value.

29. 450 000, hundred thousand

30. 36 400 000, million

31. 7 900 000, million

32. 45 000 000, ten million

33. 23 600 000 000, billion

Round to the nearest tenth.

34. 0.46   35. 2.525   36. 76.55

37. 0.066   38. 13.233   39. 1.057

Round to the nearest hundredth.

40. 0.567   41. 1.202   42. 56.785

43. 3.406   44. 33.335   45. 0.452

Round to the nearest thousandth.

46. 0.3472   47. 7.8065   48. 66.5678

What digits can you replace ▓ with so that

49. 8▓5 rounds to 900?

50. 3▓66 rounds to 3000?

51. 1.7▓6 rounds to 1.8?

52. 21.54▓ rounds to 21.54?

Problems and Applications

53. You are a late night disc jockey for radio station CING. One of your jobs is to rewrite and read the latest news. Rewrite the following news stories with a classmate. Use exact or rounded numbers.

● Tonight, 12 532 fans watched the Cobras beat the Pythons 8 to 1. Attendance at Python games is up 50% over last year.

● Yesterday, Raisa, the zoo's popular tiger, gave birth to three cubs. Their masses were 4.1 kg, 4.2 kg, and 5.4 kg.

● The broadway show *Dancing Fool* has had 731 performances and ticket sales of $1 235 678.50.

● The rock group *Telescope* will play here on May 12, 22 days from now. This will be the third stop on a 34-city tour lasting 43 days. Tickets will cost $27.50. *Telescope's* latest recording has sold 380 000 copies.

54. a) The sign on the inside of an elevator states how many people it can hold. The number is an **underestimate** because it is deliberately low. Why?
b) Work with a classmate and describe 3 situations in which you would underestimate.
c) Describe 3 situations in which you would **overestimate**, that is, estimate too high.