

Name _____

On Your Own

Use compatible numbers to find two estimates.

7. $42\overline{)396}$

8. $59\overline{)4,130}$

9. $28\overline{)22,684}$

Use compatible numbers to estimate the quotient.

10. $19\overline{)22,107}$

11. $25\overline{)595}$

12. $86\overline{)7,130}$

13. At an orchard, 486 green apples are to be organized into 12 green baskets and 633 red apples are to be organized into 31 red baskets. Use estimation to decide which color basket has more apples. About how many apples are in each basket of that color?

14. A store owner bought a large box of 5,135 paper clips. He wants to repackage the paper clips into 18 smaller boxes. Each box should contain about the same number of paper clips. About how many paper clips should the store owner put into each box?

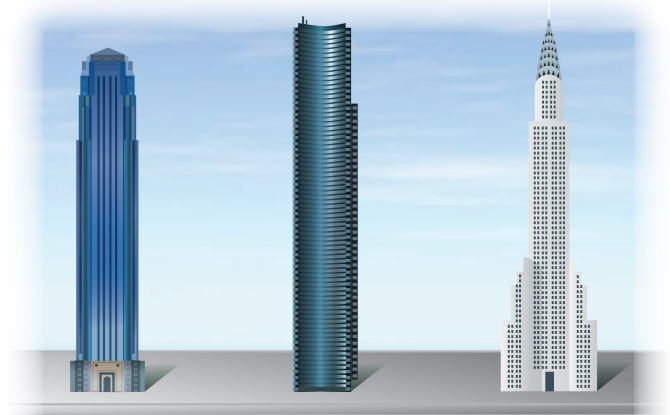
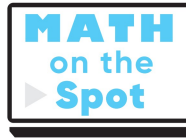
15. Explain how you can use compatible numbers to estimate the quotient of $925 \div 29$.

Problem Solving · Applications

Use the picture to solve Problems 16 and 17.

16. Use estimation to decide which building has the tallest floors.

About how many meters is each floor?




17. **MTR** About how many meters tall is each floor of the Chrysler Building? Use what you know about estimating quotients to justify your answer.

275 meters,
64 floors,
Williams
Tower,
Texas

295 meters,
76 floors,
Columbia
Center,
Washington

319 meters,
77 floors,
Chrysler
Building,
New York

18. **WRITE**  *Math* Explain how you know whether the quotient of $298 \div 31$ is closer to 9 or to 10.

19. Eli needs to save \$235. To earn money, he plans to mow lawns and charge \$21 for each. Write two estimates Eli could use to determine the number of lawns he needs to mow. Decide which estimate you think is the better one for Eli to use. Explain your reasoning.

20. Anik built a tower of cubes. It was 594 millimeters tall. The height of each cube was 17 millimeters. About how many cubes did Anik use? Explain your answer.

Show the Math

Demonstrate Your Thinking