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?
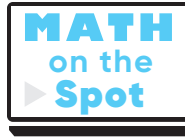
_____

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?
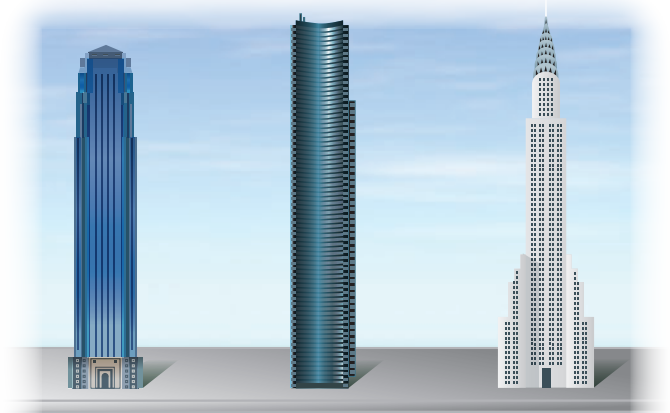
MATH on the ▶ Spot

_____

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 ÷ 31 is closer to 9 or to 10.

_____

_____

_____

Show the Math

Demonstrate Your Thinking

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.

_____

_____