

## Homework & Practice 5-7

### Use Partial Quotients to Divide: Greater Dividends

#### Another Look!

A honeybee can travel 2,925 feet in 3 minutes. How many feet would that be each minute?

$$900 + 70 + 5 = 975$$

$\begin{array}{r} 2,925 \\ - 2,700 \\ \hline 225 \end{array}$	$\begin{array}{r} 225 \\ - 210 \\ \hline 15 \end{array}$	$\begin{array}{r} 15 \\ - 15 \\ \hline 0 \end{array}$
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$$\begin{array}{r} 5 \\ 70 \\ 900 \\ \hline 975 \end{array}$$

$$\begin{array}{r} 3 \overline{)2,925} \\ \underline{-2,700} \\ 225 \\ \underline{-210} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

The honeybee traveled 975 feet each minute.

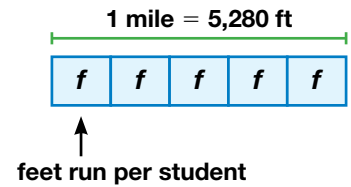
You can think about multiplication and use partial quotients to divide.



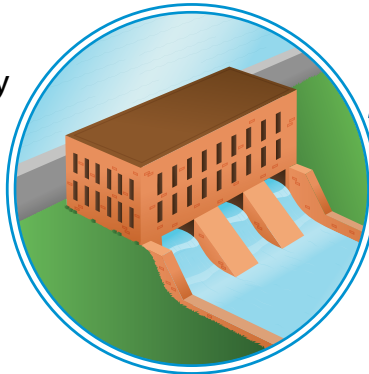
For 1–16, use partial quotients to divide.

- |                           |                          |                           |                           |
|---------------------------|--------------------------|---------------------------|---------------------------|
| 1. $9 \overline{)126}$    | 2. $7 \overline{)474}$   | 3. $2 \overline{)179}$    | 4. $6 \overline{)237}$    |
| 5. $4 \overline{)3,264}$  | 6. $8 \overline{)3,349}$ | 7. $3 \overline{)6,334}$  | 8. $5 \overline{)8,248}$  |
| 9. $6 \overline{)5,769}$  | 10. $3 \overline{)441}$  | 11. $7 \overline{)4,999}$ | 12. $6 \overline{)4,272}$ |
| 13. $3 \overline{)3,791}$ | 14. $9 \overline{)756}$  | 15. $5 \overline{)4,271}$ | 16. $4 \overline{)1,847}$ |

17. **Algebra** Five students ran an equal distance in the one-mile relay race. How many feet did each student run? Use the bar diagram to write and solve an equation.



18. **Math and Science** The function of a hydroelectric plant is to change the energy from the motion of water into electricity. How long does it take the hydroelectric plant shown to produce 384-kilowatt hours of electricity?



A hydroelectric plant can produce 8 kilowatt hours of electricity each hour.

19. **MP.3 Critique Reasoning** Tell whether Miranda's or Jesse's reasoning is correct. Explain.

Miranda

$$\begin{aligned}
 6,050 \div 5 &= (6,000 + 50) \div 5 \\
 &= (6,000 \div 5) + (50 \div 5) \\
 &= 1,200 + 10 \\
 &= 1,210
 \end{aligned}$$

Jesse

$$\begin{aligned}
 6,050 \div 5 &= (6,000 + 50) \div (3+2) \\
 &= (6,000 \div 3) + (50 \div 2) \\
 &= 2,000 + 25 \\
 &= 2,025
 \end{aligned}$$

20. Kelli signed up for 38 gymnastics lessons. Each lesson lasts for 2 hours. How many hours of lessons did Kelli sign up for?

21. **Higher Order Thinking** Edgar Elementary School is having a reading contest. Six fourth-grade classes each set a goal to read 1,266 pages. Six fifth-grade classes each set a goal of 2,212 pages. How many more pages does each fifth-grade class have to read than each fourth-grade class?

**Common Core Assessment**

22. Write the correct numbers in the boxes to complete the area model and the equation shown.

$$4,306 \div 9 = \square \text{ R } \square$$

