

Partial-Quotients Division

Lesson 6-4

DATE

TIME

Sample estimates provided.



Estimate. Write a number model with an unknown to represent the problem.

Then solve using partial-quotients division.

- 1 There are 6 pencils in each pack of pencils. How many packs can be made from 96 pencils?

$$6 \overline{)96}$$

Estimate: $100 / 5 = 20$

Number model with unknown: $96 \div 6 = p$

Answer: 16 pack(s)

- 2 Deon has \$84 to use to purchase books. Books cost \$7 each. How many books can Deon buy?

$$7 \overline{)84}$$

Estimate: $80 / 8 = 10$

Number model with unknown: $84 \div 7 = b$

Answer: 12 book(s)

- 3 Jayla ran 3 miles in 42 minutes. If she ran all 3 miles in the same amount of time, how many minutes did it take her to run each mile?

$$3 \overline{)42}$$

Estimate: $45 / 3 = 15$

Number model with unknown: $42 \div 3 = m$

Answer: 14 minute(s)

Sample estimates provided.

- 4 Mrs. Garner wants to divide all of the fourth graders into groups of 8 for a music program. If there are 96 students, how many groups will she have?

$$8 \overline{)96}$$

Estimate: $\underline{100 / 10 = 10}$

Number model with unknown: $\underline{96 \div 8 = 12}$

Answer: 12 group(s)

- 5 Solve. Use a partitioned rectangle to explain your solution.

Peyton bought a piece of licorice that measured 72 inches long. She wants to give 6 inches of licorice to each of her friends. How many friends can Peyton give licorice to?

Estimate: $\underline{70 / 7 = 10}$

Number model with unknown: $\underline{72 \div 6 = f}$

Answer: 12 friend(s)

Sample answer:

