

Partial Quotients

Estimate. Write a number model to represent the problem. Solve using partial quotients.

Estimates and number models are sample answers.



- ① The carnival committee has 360 small prizes to distribute to 5 booths. How many prizes will each booth get?

Estimate: $350 \div 5 = 70$

Number model with unknown:

$$360 \div 5 = p$$

Sample answer:

$$\begin{array}{r} 5 \overline{)360} \\ - 350 \\ \hline 10 \\ - 10 \\ \hline 0 \end{array} \left| \begin{array}{l} 70 \\ 2 \\ \hline 72 \end{array} \right.$$

Answer: 72 prizes

How many prizes are left over? 0 prizes

- ② The mall needs a row of parking spaces. The length of the parking area is 2,711 feet. If each parking space is 9 feet wide, how many spaces will there be?

Estimate: $3,000 \div 10 = 300$

Number model with unknown:

$$2,711 \div 9 = s$$

Sample answer:

$$\begin{array}{r} 9 \overline{)2,711} \\ - 2,700 \\ \hline 11 \\ - 9 \\ \hline 2 \end{array} \left| \begin{array}{l} 300 \\ 1 \\ \hline 301 \end{array} \right.$$

Answer: 301 spaces

How many feet are left over? 2 feet

Solve using partial quotients. Show your work on the back of this page.

- ③ $161 \div 7$ Estimate: $160 \div 8 = 20$

Answer: 23

- ④ $576 \div 4$ Estimate: $600 \div 4 = 150$

Answer: 144

Practice

Put these decimals in order from least to greatest.

- ⑤ 0.98, 0.34, 9.8, 0.08 0.08, 0.34, 0.98, 9.8

- ⑥ 0.11, 0.01, 0.10, 1.0 0.01, 0.10, 0.11, 1.0

Use $<$, $>$, or $=$ to compare the decimals.

- ⑦ $0.65 > 0.5$

- ⑧ $37.9 < 37.96$