

Partial Quotients Division

Example

divisor → 4

dividend

$$\begin{array}{r} 16 \\ 4 \overline{) 64} \\ \underline{-40} \\ 24 \\ \underline{-16} \\ 8 \\ \underline{-8} \\ 0 \end{array}$$

multipliers

4×10

4×4

4×2

$10 + 4 + 2 = 16$

Add up the multipliers of the divisor to find the answer.

or

Another Way

divisor → 4

dividend

$$\begin{array}{r} 16 \\ 4 \overline{) 64} \\ \underline{-40} \\ 24 \\ \underline{-24} \\ 0 \end{array}$$

multipliers

4×10

4×6

$10 + 6 = 16$

Add up the multipliers of the divisor to find the answer.

Solve using partial quotients.

a.

$$2 \overline{) 36}$$

b.

$$3 \overline{) 78}$$

c.

$$5 \overline{) 80}$$

d.

$$4 \overline{) 92}$$

e.

$$6 \overline{) 84}$$

f.

$$2 \overline{) 68}$$

g.

$$3 \overline{) 51}$$

h.

$$4 \overline{) 60}$$

i.

$$8 \overline{) 96}$$

Partial Quotients Division

Work will vary.

Solve using partial quotients.

a.

$$\begin{array}{r}
 18 \\
 2 \overline{) 36} \\
 \underline{-20} \quad 2 \times 10 \\
 16 \\
 \underline{-16} \quad 2 \times 8 \\
 0
 \end{array}$$

$10 + 8 = 18$

b.

$$\begin{array}{r}
 26 \\
 3 \overline{) 78} \\
 \underline{-60} \quad 3 \times 20 \\
 18 \\
 \underline{-18} \quad 3 \times 6 \\
 0
 \end{array}$$

$20 + 6 = 26$

c.

$$\begin{array}{r}
 16 \\
 5 \overline{) 80} \\
 \underline{-50} \quad 5 \times 10 \\
 30 \\
 \underline{-30} \quad 5 \times 6 \\
 0
 \end{array}$$

$10 + 6 = 16$

d.

$$\begin{array}{r}
 23 \\
 4 \overline{) 92} \\
 \underline{-80} \quad 4 \times 20 \\
 12 \\
 \underline{-12} \quad 4 \times 3 \\
 0
 \end{array}$$

$20 + 3 = 23$

e.

$$\begin{array}{r}
 14 \\
 6 \overline{) 84} \\
 \underline{-60} \quad 6 \times 10 \\
 24 \\
 \underline{-24} \quad 6 \times 4 \\
 0
 \end{array}$$

$10 + 4 = 14$

f.

$$\begin{array}{r}
 34 \\
 2 \overline{) 68} \\
 \underline{-60} \quad 2 \times 30 \\
 8 \\
 \underline{-8} \quad 2 \times 4 \\
 0
 \end{array}$$

$30 + 4 = 34$

g.

$$\begin{array}{r}
 17 \\
 3 \overline{) 51} \\
 \underline{-30} \quad 3 \times 10 \\
 21 \\
 \underline{-21} \quad 3 \times 7 \\
 0
 \end{array}$$

$10 + 7 = 17$

h.

$$\begin{array}{r}
 15 \\
 4 \overline{) 60} \\
 \underline{-40} \quad 4 \times 10 \\
 20 \\
 \underline{-20} \quad 4 \times 5 \\
 0
 \end{array}$$

$10 + 5 = 15$

i.

$$\begin{array}{r}
 12 \\
 8 \overline{) 96} \\
 \underline{-80} \quad 8 \times 10 \\
 16 \\
 \underline{-16} \quad 8 \times 2 \\
 0
 \end{array}$$

$10 + 2 = 12$