

Colegio Aguamansa  
La Orotava  
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Actividades para trabajar:

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# La multiplicación

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Otros algoritmos para el  
desarrollo del Cálculo  
mental

## 1ª parte

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# La multiplicación. MÉTODO EXPANDIDO

(1.2)

$$\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 10 + 2 \\ \times 3 \\ \hline 30 + 6 = 36 \end{array}$$

$$\begin{array}{r} 21 \\ \times 5 \\ \hline \end{array} = \begin{array}{r} 20 + 1 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ \times 2 \\ \hline \end{array} = \begin{array}{r} 30 + 8 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 5 \\ \hline \end{array} =$$

$$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array} =$$

$$\begin{array}{r} 52 \\ \times 4 \\ \hline \end{array} =$$

$$\begin{array}{r} 21 \\ \times 4 \\ \hline \end{array} =$$

$$\begin{array}{r} 29 \\ \times 3 \\ \hline \end{array} =$$

$$\begin{array}{r} 32 \\ \times 3 \\ \hline \end{array} =$$

$$\begin{array}{r} 45 \\ \times 3 \\ \hline \end{array} =$$

$$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array} =$$

$$\begin{array}{r} 123 \\ \times 2 \\ \hline \end{array} =$$

①

# La multiplicación MÉTODO EXPANDIDO

a)  $64 = 60 + 4$

$$\begin{array}{r} \times 2 \\ \hline 128 \end{array} \quad \begin{array}{r} \times 2 \\ \hline 120 + 8 \end{array}$$

ciento veintiocho

b)  $67$

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

c)  $75$

$$\begin{array}{r} \times 4 \\ \hline \end{array}$$

d)  $69$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

e)  $58$

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

f)  $82$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

g)  $123 =$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

h)  $213$

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

i)  $236$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

j)  $304$

$$\begin{array}{r} \times 3 \\ \hline \end{array}$$

k)  $502$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

l)  $345$

$$\begin{array}{r} \times 2 \\ \hline \end{array}$$

la multiplicación → Para el cálculo mental  
MÉTODO EN VERTICAL

$$\begin{array}{r} \text{a) } 123 \\ \times 3 \\ \hline 300 \\ 60 \\ + 9 \\ \hline 369 \end{array}$$

$$\begin{array}{r} \text{b) } 21 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 14 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } 15 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } 23 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) } 25 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g) } 19 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{h) } 47 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{i) } 12 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} \text{j) } 13 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{k) } 14 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l) } 15 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{ll) } 121 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m) } 114 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{n) } 233 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{ñ) } 213 \\ \times 4 \\ \hline \end{array}$$

Propiedad distributiva MULTIPLICACION  
 Algoritmos para el cálculo mental 2º 2007-08 (2)

a)  $523 = 500 + 20 + 3$   
 $\begin{array}{r} 523 \\ \times 2 \\ \hline \end{array}$   
 $\begin{array}{r} 2 \\ \hline 1.000 + 40 + 6 = 1.046 \end{array}$   
 Mil cuarenta y seis

h)  $345$   
 $\begin{array}{r} 345 \\ \times 3 \\ \hline \end{array}$

b)  $475$   
 $\begin{array}{r} 475 \\ \times 2 \\ \hline \end{array}$

i)  $235 =$   
 $\begin{array}{r} 235 \\ \times 3 \\ \hline \end{array}$

c)  $2$   
 $\begin{array}{r} 2 \\ \times 386 \\ \hline \end{array}$

j)  $3$   
 $\begin{array}{r} 3 \\ \times 124 = \\ \hline \end{array}$

d)  $2$   
 $\begin{array}{r} 2 \\ \times 468 \\ \hline \end{array}$

k)  $3$   
 $\begin{array}{r} 3 \\ \times 215 = \\ \hline \end{array}$

e)  $2$   
 $\begin{array}{r} 2 \\ \times 557 \\ \hline \end{array}$

l)  $3$   
 $\begin{array}{r} 3 \\ \times 325 = \\ \hline \end{array}$

f)  $2$   
 $\begin{array}{r} 2 \\ \times 384 \\ \hline \end{array}$

m)  $3$   
 $\begin{array}{r} 3 \\ \times 238 = \\ \hline \end{array}$

g)  $2$   
 $\begin{array}{r} 2 \\ \times 749 \\ \hline \end{array}$

n)  $206 =$   
 $\begin{array}{r} 206 \\ \times 3 \\ \hline \end{array}$

$0 + 50 =$        $80 + 80 =$   
 $0 + 60 =$        $90 + 90 =$   
 $0 + 70 =$        $100 + 100 =$

$500 + 500 =$        $800 + 800 =$   
 $600 + 600 =$        $900 + 900 =$   
 $700 + 700 =$        $1000 + 1000 =$

# La multiplicación. Prop. distributiva 2009 ①

$$\begin{array}{r}
 a \\
 345 \text{ €} \\
 \cdot 3 \text{ per} \\
 \hline
 900 \\
 120 \\
 + 15 \\
 \hline
 1.035
 \end{array}$$

$$\begin{array}{r}
 e \\
 802 \\
 \cdot 4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 i \\
 502 \\
 \cdot 6 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 h \\
 \phantom{0}5 \\
 \cdot 404 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 b \\
 456 \text{ boli} \\
 \times 4 \text{ paq} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 f \\
 \phantom{0}4 \\
 \cdot 257 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 j \\
 725 \\
 \cdot 4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 m \\
 \phantom{0}6 \\
 \cdot 202 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 c \\
 214 \text{ €} \\
 \cdot 3 \text{ coches} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 g \\
 \phantom{0}6 \\
 \times 314 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 k \\
 \phantom{0}9 \\
 \cdot 242 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 n \\
 \phantom{0}8 \\
 \cdot 202 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 d \\
 5 \text{ per} \\
 \cdot 246 \text{ €} \\
 \hline
 \end{array}$$

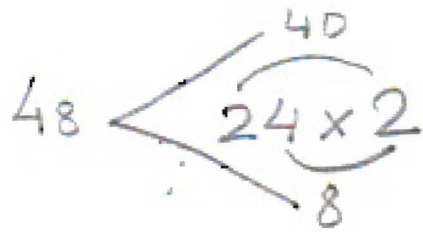
$$\begin{array}{r}
 h \\
 243 \\
 \cdot 5 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 l \\
 \phantom{0}8 \\
 \times 323 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 ñ \\
 \phantom{0}6 \\
 \cdot 101 \\
 \hline
 \end{array}$$

# Método del pico de pájaro (Propiedad distributiva)

a)



$$- 17 \times 3$$

$$34 \times 3$$

$$28 \times 3$$

$$64 \times 2$$

$$52 \times 2$$

$$14 \times 4$$

$$12 \times 8$$

$$23 \times 4 =$$

$$23 \times 3$$

$$32 \times 3 =$$

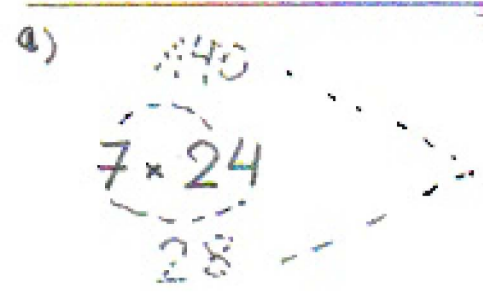
$$19 \times 3$$

⑥

~~algunos para el calculo mental~~

Propiedad distributiva

"Pico de pájaro"



g)

$$6 \times 24$$

b)

$$8 \times 12$$

h)

$$8 \times 15$$

d)

$$9 \times 12$$

i)

$$6 \times 25$$

d)

$$4 \times 26$$

j)

$$4 \times 42$$

e)

$$6 \times 15$$

k)

$$6 \times 35$$

f)

$$4 \times 45$$

l)

$$8 \times 24$$



MÉTODO PICO DE PÁJARO (Propiedad distributiva)

$45 \times 6 =$	$56 \times 7 =$
$56 \times 8 =$	$36 \times 8 =$
$52 \times 5 =$	$36 \times 3 =$
$65 \times 2 =$	$58 \times 4 =$
$58 \times 7 =$	$89 \times 2 =$
$57 \times 6 =$	$89 \times 3 =$
$78 \times 3 =$	$45 \times 5 =$
$63 \times 5 =$	$87 \times 2 =$
$69 \times 5 =$	$82 \times 3 =$

# La multiplicación. Propiedad distributiva horizontal

a)  $17 \times 12 =$

$17 \times 10 = 170$

$17 \times 2 = 34 > 204$

f)  $12 \times 12 =$

1

b)  $13 \times 12 =$

g)  $13 \times 13 =$

c)  $15 \times 13 =$

h)  $14 \times 14 =$

d)  $20 \times 14 =$

i)  $20 \times 15 =$

e)  $25 \times 12 =$

j)  $16 \times 16 =$

1)  $\begin{array}{r} 48 \\ -5 \\ \hline \end{array}$

2)  $\begin{array}{r} 63 \\ -57 \\ \hline \end{array}$

3)  $\begin{array}{r} 82 \\ -26 \\ \hline \end{array}$

4)  $\begin{array}{r} 100 \\ -50 \\ \hline \end{array}$

5)  $\begin{array}{r} 24 \\ -12 \\ \hline \end{array}$

6)  $\begin{array}{r} 36 \\ -48 \\ \hline \end{array}$

7)  $\begin{array}{r} 6 \\ 20 \\ 10 \\ \hline \end{array}$

8)  $\begin{array}{r} 230 \\ 41 \\ 9 \\ \hline \end{array}$

9)  $\begin{array}{r} 62 \\ 18 \\ 3 \\ \hline \end{array}$

10)  $\begin{array}{r} 2 \\ 33 \\ + 444 \\ \hline \end{array}$

11)  $\begin{array}{r} 1 \\ 22 \\ + 888 \\ \hline \end{array}$

12)  $\begin{array}{r} 9 \\ 9 \\ 9 \\ \hline \end{array}$

# Algoritmos para la multiplicación 2009/10 4º

$$\begin{array}{r} a) \quad 21 \\ \cdot 123 \\ \hline 2000 \\ 400 \\ 60 \\ 100 \\ + 20 \\ \quad 3 \\ \hline 2.583 \end{array}$$

$$\begin{array}{r} e) \quad 254 \\ \cdot 14 \\ \hline \end{array}$$

$$\begin{array}{r} i) \quad 125 \\ \cdot 23 \\ \hline \end{array}$$

$$\begin{array}{r} ll) \quad 25 \\ \cdot 36 \\ \hline \end{array}$$

$$\begin{array}{r} b) \quad 123 \\ \cdot 13 \\ \hline \end{array}$$

$$\begin{array}{r} f) \quad 121 \\ \cdot 23 \\ \hline \end{array}$$

$$\begin{array}{r} j) \quad 207 \\ \cdot 35 \\ \hline \end{array}$$

$$\begin{array}{r} m) \quad 27 \\ \cdot 32 \\ \hline \end{array}$$

$$\begin{array}{r} c) \quad 425 \\ \cdot 22 \\ \hline \end{array}$$

$$\begin{array}{r} g) \quad 45 \\ \cdot 203 \\ \hline \end{array}$$

$$\begin{array}{r} k) \quad 315 \\ \cdot 25 \\ \hline \end{array}$$

$$\begin{array}{r} n) \quad 423 \\ \cdot 11 \\ \hline \end{array}$$

$$\begin{array}{r} d) \quad 212 \\ \cdot 14 \\ \hline \end{array}$$

$$\begin{array}{r} h) \quad 25 \\ \cdot 207 \\ \hline \end{array}$$

$$\begin{array}{r} l) \quad 45 \\ \cdot 108 \\ \hline \end{array}$$

$$\begin{array}{r} ñ) \quad 125 \\ \cdot 23 \\ \hline \end{array}$$

# La multiplicación. Propiedad distributiva <sup>(5)</sup>

$$\begin{array}{r} \text{a)} \quad 247 \\ \times 4 \\ \hline 800 \\ 160 \\ + 28 \\ \hline 988 \end{array}$$

$$\begin{array}{r} \text{e)} \quad 345 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{i)} \quad \phantom{0}6 \\ \times 234 \\ \hline \end{array}$$

$$\begin{array}{r} \text{ll)} \quad \phantom{0}3 \\ \times 413 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b)} \quad 247 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f)} \quad 246 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{j)} \quad \phantom{0}9 \\ \times 203 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m)} \quad \phantom{0}6 \\ \times 203 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c)} \quad 305 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g)} \quad \phantom{0}7 \\ \times 213 \\ \hline \end{array}$$

$$\begin{array}{r} \text{k)} \quad \phantom{0}8 \\ \times 217 \\ \hline \end{array}$$

$$\begin{array}{r} \text{n)} \quad \phantom{0}9 \\ \times 214 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d)} \quad \phantom{0}7 \\ \times 214 \\ \hline \end{array}$$

$$\begin{array}{r} \text{h)} \quad \phantom{0}8 \\ \times 243 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l)} \quad \phantom{0}6 \\ \times 207 \\ \hline \end{array}$$

$$\begin{array}{r} \text{ñ)} \quad \phantom{0}4 \\ \times 204 \\ \hline \end{array}$$

# La multiplicación. Prop. distributiva. Cálculo mental ⑥

$$\begin{array}{r} a) \quad 345 \\ \quad \times 5 \\ \hline 1500 \\ \quad 200 \\ + 25 \\ \hline 1.725 \end{array}$$

$$\begin{array}{r} b) \quad 625 \text{ €} \\ \quad \times 4 \text{ personas} \\ \hline \end{array}$$

$$\begin{array}{r} c) \quad 3 \text{ cajas} \\ \quad \times 348 \text{ caram.} \\ \hline \end{array}$$

$$\begin{array}{r} d) \quad \times 5 \\ \hline 563 \end{array}$$

$$\begin{array}{r} e) \quad 921 \\ \quad \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} f) \quad 4 \text{ paquetes} \\ \quad \times 837 \text{ caram.} \\ \hline \end{array}$$

$$\begin{array}{r} g) \quad 626 \\ \quad \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} h) \quad \quad 8 \\ \quad \times 527 \\ \hline \end{array}$$

$$\begin{array}{r} i) \quad \quad 6 \\ \quad \times 345 \\ \hline \end{array}$$

$$\begin{array}{r} j) \quad 678 \\ \quad \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} k) \quad \quad 3 \\ \quad \times 809 \\ \hline \end{array}$$

$$\begin{array}{r} l) \quad 926 \\ \quad \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} ll) \quad 234 \\ \quad \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} m) \quad 8 \text{ personas} \\ \quad \times 364 \text{ €} \\ \hline \end{array}$$

$$\begin{array}{r} n) \quad \quad 5 \\ \quad \times 218 \\ \hline \end{array}$$

$$\begin{array}{r} \bar{n}) \quad \quad 6 \\ \quad \times 327 \\ \hline \end{array}$$

# LA MULTIPLICACIÓN. Método vertical. Prop. distributiva

CÁLCULO MENTAL

a)  $123 \times 4$

1<sup>er</sup> paso:  $100 \times 4 = 400$   
 2<sup>o</sup>:  $20 \times 4 = 80$   
 3<sup>o</sup>:  $3 \times 4 = 12$

$$\begin{array}{r} 123 \\ \times 4 \\ \hline 400 \\ + 80 \\ + 12 \\ \hline 492 \end{array}$$

b)  $164 \times 3$

$$\begin{array}{r} 164 \\ \times 3 \\ \hline 300 \\ + 180 \\ + 12 \\ \hline 492 \end{array}$$

c)  $381 \times 5$

$$\begin{array}{r} 381 \\ \times 5 \\ \hline \end{array}$$

d)  $460 \times 3$

$$\begin{array}{r} 460 \\ \times 3 \\ \hline \end{array}$$

e)  $235 \times 6$

$$\begin{array}{r} 235 \\ \times 6 \\ \hline \end{array}$$

f)  $3 \times 436$

$$\begin{array}{r} 3 \\ \times 436 \\ \hline \end{array}$$

g)  $2 \times 529$

$$\begin{array}{r} 2 \\ \times 529 \\ \hline \end{array}$$

h)  $6 \times 238$

$$\begin{array}{r} 6 \\ \times 238 \\ \hline \end{array}$$

i)  $143 \times 7$

$$\begin{array}{r} 143 \\ \times 7 \\ \hline \end{array}$$

j)  $285 \times 6$

$$\begin{array}{r} 285 \\ \times 6 \\ \hline \end{array}$$

k)  $923 \times 4$

$$\begin{array}{r} 923 \\ \times 4 \\ \hline \end{array}$$

l)  $3 \times 817$

$$\begin{array}{r} 3 \\ \times 817 \\ \hline \end{array}$$

ll)  $654 \times 4$

$$\begin{array}{r} 654 \\ \times 4 \\ \hline \end{array}$$

m)  $2.507 \times 3$

$$\begin{array}{r} 2.507 \\ \times 3 \\ \hline \end{array}$$

n)  $3.052 \times 3$

$$\begin{array}{r} 3.052 \\ \times 3 \\ \hline \end{array}$$

ñ)  $4 \times 1.405$

$$\begin{array}{r} 4 \\ \times 1.405 \\ \hline \end{array}$$

# LA MULTIPLICACIÓN. Prop. distributiva. CÁLCULO MENTAL

a)

$$\begin{array}{r}
 124 \\
 \times 23 \\
 \hline
 2000 \quad | \quad 300 \\
 400 \quad | \quad 60 \\
 8 \quad | \quad 12 \\
 \hline
 2780
 \end{array}$$

b)

$$\begin{array}{r}
 231 \\
 \times 34 \\
 \hline
 \end{array}$$

c)

$$\begin{array}{r}
 35 \\
 \times 232 \\
 \hline
 \end{array}$$

d)

$$\begin{array}{r}
 235 \\
 \times 14 \\
 \hline
 \end{array}$$

e)

$$\begin{array}{r}
 42 \\
 \times 308 \\
 \hline
 \end{array}$$

f)

$$\begin{array}{r}
 507 \\
 \times 25 \\
 \hline
 \end{array}$$

g)

$$\begin{array}{r}
 364 \\
 \times 23 \\
 \hline
 \end{array}$$

h)

$$\begin{array}{r}
 41 \\
 \times 356 \\
 \hline
 \end{array}$$

i)

$$\begin{array}{r}
 23 \\
 \times 407 \\
 \hline
 \end{array}$$

j)

$$\begin{array}{r}
 27 \\
 \times 135 \\
 \hline
 \end{array}$$

k)

$$\begin{array}{r}
 243 \\
 \times 52 \\
 \hline
 \end{array}$$

l)

$$\begin{array}{r}
 360 \\
 \times 45 \\
 \hline
 \end{array}$$

# La multiplicación. Prop. distributiva. CÁLCULO MENTAL

a)

$$\begin{array}{r} 215 \\ \times 34 \\ \hline 6.000 \\ 300 \\ 150 \\ \hline 7.310 \end{array}$$

e)

$$\begin{array}{r} 325 \\ \times 45 \end{array}$$

--	--

b)

$$\begin{array}{r} 324 \\ \times 25 \end{array}$$

--	--

f)

$$\begin{array}{r} 823 \\ \times 42 \end{array}$$

--	--

c)

$$\begin{array}{r} 516 \\ \times 17 \end{array}$$

--	--

g)

$$\begin{array}{r} 350 \\ \times 36 \end{array}$$

--	--

d)

$$\begin{array}{r} 802 \\ \times 35 \end{array}$$

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h)

$$\begin{array}{r} 444 \\ \times 21 \end{array}$$

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# La propiedad distributiva VERTICAL (2)

$$\begin{array}{r} a) \quad 12 \\ \times 12 \\ \hline 120 \\ + 24 \\ \hline 144 \end{array}$$

$$\begin{array}{r} b) \quad 23 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} c) \quad 34 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} d) \quad 21 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} e) \quad 13 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} f) \quad 13 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} g) \quad 13 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} h) \quad 20 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} i) \quad 40 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} j) \quad 41 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} k) \quad 25 \\ \times 15 \\ \hline \end{array}$$

$$\begin{array}{r} l) \quad 21 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} ll) \quad 50 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} m) \quad 60 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} n) \quad 12 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} \bar{n}) \quad 8 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} o) \quad 420 \\ \quad 72 \\ + \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} p) \quad 602 \\ \quad 18 \\ + \quad 30 \\ \hline \end{array}$$

$$\begin{array}{r} q) \quad 62 \\ - \quad 58 \\ \hline \end{array}$$

$$\begin{array}{r} r) \quad 53 \\ - \quad 7 \\ \hline \end{array}$$