

$$= 40 + 7$$

$$\frac{70 + 6}{110 + 13} = 123$$

$$\begin{array}{r} 47 \\ + 76 \\ \hline 110 \\ + 13 \\ \hline 123 \end{array}$$

onto

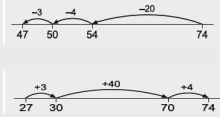
$$\begin{array}{r} 47 \\ + 76 \\ \hline 13 \\ \hline 110 \\ + 13 \\ \hline 123 \end{array}$$

$$\begin{array}{r} 47 \\ + 76 \\ \hline 123 \end{array}$$

$$\begin{array}{r} 258 \\ + 87 \\ \hline 345 \\ + 11 \\ \hline 356 \end{array}$$

$$\begin{array}{r} 366 \\ + 458 \\ \hline 824 \\ + 11 \\ \hline 835 \end{array}$$

End of Y4



$$60 + 3$$

$$\frac{40 + 1}{20 + 2}$$

$$500 + 60 + 3$$

$$\frac{200 + 40 + 1}{300 + 20 + 2}$$

$$\begin{array}{r} 60 \\ - 20 \\ \hline 40 \\ + 7 \\ \hline 47 \end{array}$$

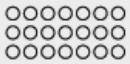
$$\begin{array}{r} 14 \\ - 2 \\ \hline 12 \\ + 7 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 600 \\ - 300 \\ \hline 300 \\ + 70 + 4 \\ \hline 374 \end{array}$$

$$\begin{array}{r} 6 \\ - 3 \\ \hline 3 \\ + 7 \\ \hline 10 \end{array}$$



Arrays



Informal jottings

$$\begin{array}{r} 43 \\ 40 + 3 \\ \downarrow \quad \downarrow \\ 240 + 18 = 258 \end{array}$$

$$\begin{array}{r|l} \times & 7 \\ \hline 30 & 210 \\ 8 & 56 \\ \hline & 266 \end{array}$$

$$\begin{array}{r} 30 + 8 \\ \times 7 \\ \hline 210 \\ 56 \\ \hline 266 \end{array}$$

30 x 7 = 210  
8 x 7 = 56

$$\begin{array}{r} 38 \\ \times 7 \\ \hline 210 \\ 56 \\ \hline 266 \end{array}$$

$$\begin{array}{r} - \\ 38 \\ \times 7 \\ \hline 266 \\ 5 \end{array}$$

x	20	7	
50	1000	350	1350
6	120	42	162
		1512	
			1

$$\begin{array}{r} 56 \\ \times 27 \\ \hline 1000 \\ 120 \\ 350 \\ \hline 1512 \\ 1 \end{array}$$

50 x 20 = 1000  
6 x 20 = 120  
50 x 7 = 350  
6 x 7 = 42

x	20	9	
200	4000	1800	5800
80	1600	720	2320
6	120	54	174
		8294	
			1

$$\begin{array}{r} 286 \\ \times 29 \\ \hline 5720 \\ 2574 \\ \hline 8294 \\ 1 \end{array}$$

286 x 20  
286 x 9



Grouping



$$\begin{array}{r} 84 \\ 70 + 14 \\ \downarrow \quad \downarrow \\ 10 + 2 = 12 \end{array}$$

Short  
Long

$$\frac{20 + 7}{3 \mid 60 + 21}$$

$$\frac{27}{3 \mid 821}$$

$$\frac{90 + 7}{= 3 \mid 270 + 21}$$

$$\frac{97}{3 \mid 2921}$$

$$\begin{array}{r} 6 \overline{)196} \\ - 60 \quad 6 \times 10 \\ \hline 136 \\ - 60 \quad 6 \times 10 \\ \hline 76 \\ - 60 \quad 6 \times 10 \\ \hline 16 \\ - 12 \quad 6 \times 2 \\ \hline 4 \quad 32 \\ \hline 4 \quad 32 \\ \hline \text{Answer: } 32 \text{ R } 4 \end{array}$$

$$\begin{array}{r} 6 \overline{)196} \\ - 180 \quad 6 \times 30 \\ \hline 16 \\ - 12 \quad 6 \times 2 \\ \hline 4 \quad 32 \\ \hline \text{Answer: } 32 \text{ R } 4 \end{array}$$

$$\begin{array}{r} 23 \\ 24 \overline{)560} \\ - 480 \\ \hline 80 \\ - 72 \\ \hline 8 \end{array}$$

Answer: 23 R 8

End of Y5

End of Y6