

2) 15×12 ~~$15 - 1101$~~ $15 - 1111$ (M) $12 - 1100$ (Q)

n	C	A	Q	
1	0	0000	1100	
	0	0000	0110	ASR CAQ
2	0	0000	0011	ASR CAQ
3	0	1111	0011	$A = A + M$
	0	0111	1001	ASR CAQ
4	1	0100	1001	$A = A + M$
	0	1011	0100	ASR CAQ

$$(16 + 32 + 128) + 4 = 160 + 16 + 4$$

$$= \boxed{180}$$

$$\begin{array}{r}
 15 \\
 12 \times \\
 \hline
 30 \\
 15 \times \\
 \hline
 180
 \end{array}$$