

Y4 – Spring – Block 1 – Step 15 – Efficient multiplication Answers

Question	Answer
1	<p>a) $20 \times 4 + 8 \times 4 = 80 + 32 = 112$ $4 \times 28 = 112$</p> <p>b) Most children will find the first method easier, because it involves two easier multiplications.</p> <p>c) multiple possible answers, e.g. $(30 \times 4) - (2 \times 4)$</p>
2	<p>a) Ron: $30 \times 6 = 180$ $5 \times 6 = 30$ $180 + 30 = 210$ Amir: $35 \times 2 = 70$ $70 \times 3 = 210$ Annie: $5 \times 6 = 30$ $30 \times 7 = 210$</p> <p>b) Amir's and Annie's methods were more efficient than Ron's, as they required only two calculations compared to Ron's three calculations.</p>
3	<p>a) Tiny has subtracted 4 instead of adding it.</p> <p>b) 84</p>
4	<p>a) 252</p> <p>b) 3,564</p>
5	<p>a) 215</p> <p>b) 310</p> <p>c) 370</p> <p>d) 480</p>
6	<p>a) 200</p> <p>b) 200</p> <p>c) Children need to justify the method they prefer.</p>