

Approaches for finding the number of blocks

Em, Finch and Gill build a wall each.

- Altogether they use 60 blocks.
- Finch's wall is twice as long as Em's wall.
- Gill's wall is three times as long as Em's wall.

How many blocks are in each of their walls?

Lara's approach	Meena's approach	Noah's approach																																												
<table border="1"> <thead> <tr> <th>Em</th> <th>Finch</th> <th>Gill</th> <th>Total</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>3</td><td>6</td></tr> <tr><td>2</td><td>4</td><td>6</td><td>12</td></tr> <tr><td>3</td><td>6</td><td>9</td><td>18</td></tr> <tr><td>4</td><td>8</td><td>12</td><td>24</td></tr> <tr><td>5</td><td>10</td><td>15</td><td>30</td></tr> <tr><td>6</td><td>12</td><td>18</td><td>36</td></tr> <tr><td>7</td><td>14</td><td>21</td><td>42</td></tr> <tr><td>8</td><td>16</td><td>24</td><td>48</td></tr> <tr><td>9</td><td>18</td><td>27</td><td>54</td></tr> <tr><td>10</td><td>20</td><td>30</td><td>60</td></tr> </tbody> </table>	Em	Finch	Gill	Total	1	2	3	6	2	4	6	12	3	6	9	18	4	8	12	24	5	10	15	30	6	12	18	36	7	14	21	42	8	16	24	48	9	18	27	54	10	20	30	60	<p>Em n</p> <p>Finch $n \ n$</p> <p>Gill $n \ n \ n$</p> <p>$6 \times n = 60$</p> <p>$n = 10$</p>	<p>Em = 10 blocks</p> <p>Finch = 20 blocks</p> <p>Gill = 30 blocks</p>
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<ul style="list-style-type: none"> • What has Lara done? • What could Lara have done to save some time? 	<ul style="list-style-type: none"> • What has Meena done? • What does Meena still need to do to answer the question? 	<ul style="list-style-type: none"> • What has Noah done? • How did Noah use his diagram to find the number of blocks that Em used? 																																												