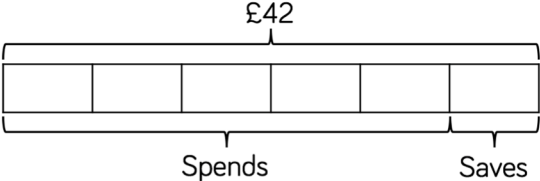


Y8 – Autumn – Block 1 – Step 5 – Divide in a given ratio

| Question | Answer |
|----------|---|
| 1 | <p>a) Each bar represents the amount of money each person has. The bracket labelled £50 represents the total amount of money.</p> <p>b) Dora receives £15 and Ron receives £35</p> |
| 2 | <p>a)</p> <div style="text-align: center;">  <p style="margin-left: 100px;">£42</p> <p style="margin-left: 100px;">Spends</p> <p style="margin-left: 200px;">Saves</p> </div> <p>Could also be set out as two bars..</p> <p>b) £7</p> <p>c) £35</p> <p>d) She will save £5 more per month.</p> |
| 3 | 50 ml |
| 4 | <p>Mo receives £150</p> <p>Aisha receives £50</p> <p>Jack receives £200</p> |
| 5 | <p>a) 90 : 60</p> <p>90 : 60</p> <p>b) 45 : 30</p> <p>30 : 45</p> <p>c) 10 : 15</p> <p>40 : 60</p> <p>d) In part a the answers are the same because the ratios are equivalent. In part b the the numbers in the answer are reversed because the numbers in the ratio are reversed. In part c each part of the second answer is four times larger because the ratios are the same and the amount shared was four times larger.</p> |
| 6 | <p>a) Isosceles – The triangle has exactly two angles that are the same.</p> <p>b) 120°</p> |
| 7 | <p>If the mean is 16, the total of the four numbers is 64</p> <p>This means that one equal part in the ratio is equal to 4</p> <p>Therefore the range is 24</p> |
| 8 | <p>a) 16</p> <p>b) 36</p> <p>c) 20</p> <p>d) –20</p> <p>e) 364</p> <p>f) –28</p> |