

Here is Gemma and Flo's work:

$$47 \div 20 = 2.35$$

$$47 \div 15 = 3.1333333$$

$$47 \div 17 = 2.7647058$$

$$46 \div 17 = 2.7058823$$

$$45 \div 17 = 2.6470588$$

$$42 \div 17 = 2.4705882$$

$$42 \div 15 = 2.8$$

$$42 \div 16 = 2.625$$

$$40 \div 16 = 2.5$$

$$41 \div 16 = 2.5625$$

$$47 \div 16 = 2.9375$$

$$40 \div 14 = 2.857142857$$

$$39 \div 12 = 3.25$$

$$39 \div 13 = 3$$

$$39 \div 11 = 3.5454545$$

$$39 \div 15 = 2.6$$

$$38 \div 12 = 3.1666666$$

$$38 \div 13 = 2.9230769$$

$$37 \div 11 = 3.3636363$$

$$37 \div 12 = 3.0833333$$

$$37 \div 10 = 3.7$$

$$37 \div 11 = 3.3636363$$

$$37 \div 10.5 = 3.5238095$$

$$36 \div 12 = 3.0$$

$$36.5 \div 10 = 3.65$$

$$35.5 \div 10 = 3.55$$

$$35 \div 4 = 8.75$$

**Richard wrote the following:**

3.125 x numbers I up

He explained:

“ I multiplied 3.125 by 1, then I tried multiplying 3.125 by 2, then I multiplied 3.125 by 3 ... “

**Here is the start of Thomas' work:**

“ I first looked at the number 0.125 and worked out what fraction of 1 it is. It turned out that it was an eighth.”

**Can you take each of these starting ideas and develop it into a solution?**