

Lesson 15: Problem solving – division

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- $96 \div 2 = 48$ Each class gets 48 pens.
- $57 \div 3 = 19$ They each get £19.
- $44 \div 5 = 8 \text{ r } 4$ 9 benches are needed.

4. True. $77 \div 2 = 38 \text{ r } 1$; $49 \div 4 = 12 \text{ r } 1$. The remainder is 1 in both cases.
5. Different answers possible, for example: $35 \div 4 = 8 \text{ r } 3$,
 $43 \div 5 = 8 \text{ r } 3$, $51 \div 6 = 8 \text{ r } 3$, $83 \div 10 = 8 \text{ r } 3$
6. No, the remaining children cannot stand in pairs.
 $7 \times 5 = 35$ and $58 - 35 = 23$. There is an odd number of children remaining (23); this is not divisible by 2.

Reflect

Explanations may vary; for example:

If a number ends in a 0 or a 5 it is divisible by 5, so any number that does not end in a 0 or a 5 will have a remainder. For a number to be divisible by 3 it must be in the 3 times-table or can be partitioned into numbers that are divisible by 3.