

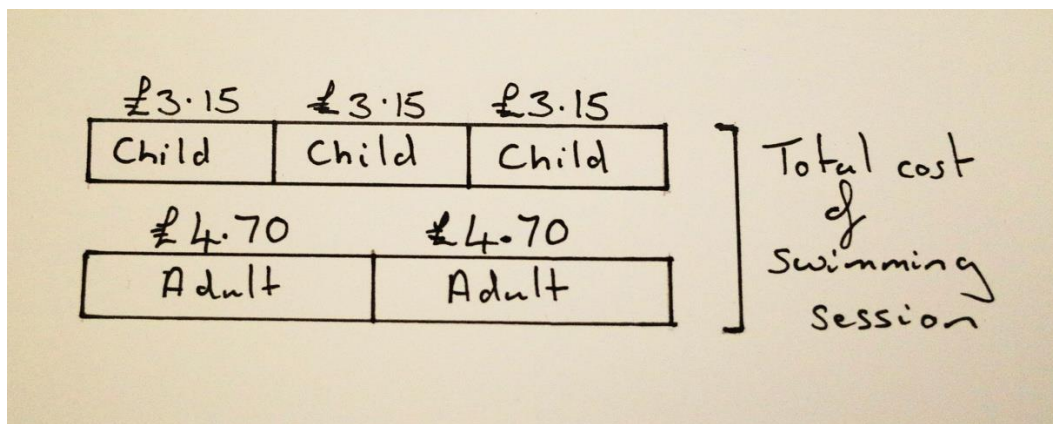
Year 5 Problem

Swimming sessions at a swimming pool cost £3.15 for children and £4.70 for adults.

How much does it cost for 3 children and 2 adults to go swimming altogether?

Model answer

I can visualise this problem using the bar model:



I shall estimate first using rounding:

£3.15 rounds to £3 to the nearest whole pound

£4.70 rounds to £5 to the nearest whole pound

So I now need to calculate:

3 children need 3 tickets

$$3 \times £3 = £9$$

2 adults need 2 tickets

$$2 \times £5 = £10$$

So the approximate total cost for 3 children and 2 adults is

$$£10 + £9 = £19$$

I will now carry out the calculations to get the answer to the problem

$$3 \times \text{£}3.15 = \text{£}9.45$$

$$2 \times \text{£}4.70 = \text{£}9.40$$

I now need to add these together to get the total

$$\text{£}9.45 + \text{£}9.40 = \text{£}18.85$$

(I did all these calculations mentally, but some people might prefer to use written methods)

The answer to the problem is £18.85 (this is near to my estimate of £19)

Now try these problems.

If the swimming sessions at a swimming pool cost £3.15 for children and £4.70 for adults, what would be the cost for 3 adults and 5 children?

Space for working

If the swimming sessions at a swimming pool cost £2.95 for children and £4.25 for adults, what would be the cost for 3 adults and 7 children?

Space for working

Answers:

£29.85

£33.40