

Problem solving – addition and subtraction 1

Discover

I have £2,600 for a deposit.

I have £1,450 more than Jen.

Car Type	Price
SPORTS CAR (Used)	£7,560
SUV (New)	£19,579
ELECTRIC CAR (New)	£8,298
FAMILY CAR (New)	£28,370
SPORTS CAR (New)	£16,725

Jen

Holly

- What is the difference in the price between the cost of the new sports car and the used one?
- How much money do Jen and Holly have altogether?

Share

a) $16,725 - 7,560$

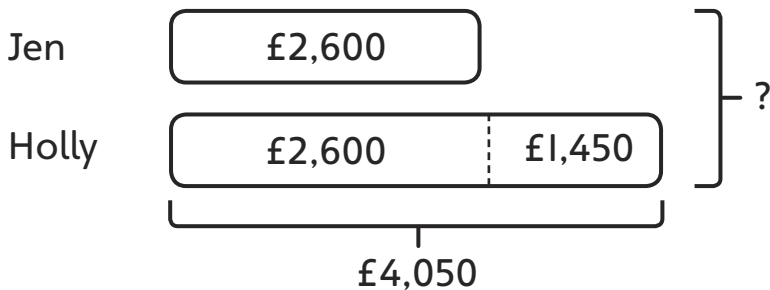
I will use bar models to help me. I can see that I need to do subtraction as I am finding a difference.

Used $\boxed{\pounds 7,560}$ $\leftarrow \text{?} \rightarrow$ New $\boxed{\pounds 16,725}$

TTh	Th	H	T	O
X 16	7	2	5	0
-	7	5	6	0
9	1	6	5	

The difference in the price between the cost of the new sports car and the used one is $\pounds 9,165$.

b) Jen has $\pounds 2,600$ and Holly has $\pounds 1,450$ more than Jen.



I know that I need to work out how much money Holly has first.

	Th	H	T	O
	2	6	0	0
+	1	4	5	0
	4	0	5	0

$\pounds 2,600 + \pounds 1,450 = \pounds 4,050$

	Th	H	T	O
	2	6	0	0
+	4	0	5	0
	6	6	5	0

$\pounds 2,600 + \pounds 4,050 = \pounds 6,650$

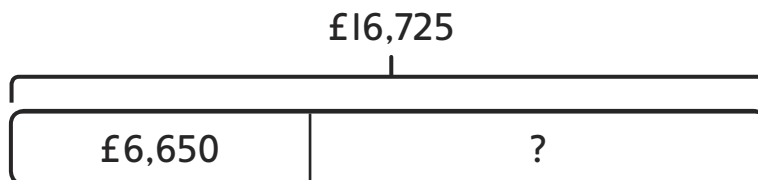


Jen and Holly have $\pounds 6,650$ altogether.

Think together

1 Together, Jen and Holly want to buy the new sports car.

How much more money do they need?



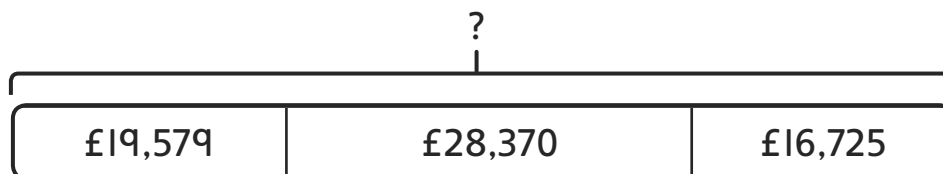
T	Th	H	T	O
1	6	7	2	5
-	6	6	5	0

Jen and Holly need £ more to buy the new sports car.

2 How much do these three cars cost in total?



Explain your method.



These three cars cost £ in total.

CHALLENGE

- 3 How much more does the family car cost than the combined total cost of the SUV and the electric car?



I think I need to do an addition and then a subtraction to work this out.

I will try and represent this as a bar model. I will use one that helps me to show a comparison.

