## $1128=8$ delys $\mathbf{~ H o ~ g o l ~}$

8 Jill buys the tea and coffee for everyone in the office at break time.
On Monday she bought 3 teas and 5 coffees.
The bill on Monday was $£ 10.50$
On Tuesday she bought 4 teas and 4 coffees.
The bill on Tuesday was $£ 10$
On Wednesday she bought 2 teas and 6 coffees.
What was the total bill on Wednesday?

## A solution by trial and improvement will not be accepted.

Answer £

Expand and simplify $(\sqrt{ } 3+\sqrt{5})^{2}$

14 A line has equation $y=2 x+3$
A curve has equation $y^{2}=8 x+33$
The line and the curve meet at the points A and B .
Calculate the length of AB , leaving your answer in the form $p \sqrt{ } q$ where $p$ and $q$ are integers.

