24th August

Solve $x^2 - 6x - 27 = 0$

| There are 20 students in class 1. There are 10 students in class 2. Both classes sit the same test. The mean mark in class 1 is 70%. The mean mark in class 2 is 90% | Work out the overall mean for both classes. |

| A drink is made from mixing orange juice and lemonade in the ratio 1:4 Lemonade costs £0.80 per litre. Orange juice costs £1.50 per litre. | Work out the cost of 4 litres of the drink. |

| Solve the simultaneous equations $5x + 3y = 51$ $3x + 5y = 37$ |    |