

Answers

Test A: Mixed

1–4 Uncle John is 42 and Matthew is $\frac{1}{3}$ of his age. $42 \div 3 = 14$ so Matthew must be 14. If Carol was 3 when Matthew was born she is 3 years older. $14 + 3 = 17$ so Carol must be 17. If Juliet was 4 when Carol was born then she is 4 years older. $17 + 4 = 21$ so Juliet must be 21. If Andrew was 2 when Juliet was born then he must be 2 years older. $21 + 2 = 23$ so Andrew must be 23.

1 23 **2** 21 **3** 17 **4** 14

5 d $50 \text{ people} \times 250 \text{ ml} = 12.5 \text{ litres}$; $12.5 \text{ litres} \div 5 \text{ parts} = 2.5 \text{ litres}$; $2.5 \text{ litres} \div 0.5\text{-litre bottles} = 5 \text{ bottles}$

6 b $5 \times \text{£}3.99 = \text{£}19.95$

7 d $12.5 \text{ litres} \div 1.5 \text{ litres} = 8.3$ rounded up to 9 jugs

8 b 81 is a square number and is under 100.

9 c 144 is a square number.

10 d

11 e