| Question | Answer |
| :---: | :---: |
| 1 | a) 92 <br> b) added 5 <br> c) $\begin{array}{lr} 25+48=73 & 250+480=730 \\ 62+55=117 & 620+550=1,170 \\ 260+250+240=750 & \end{array}$ |
| 2 | Whitney add $20+30+40$ and then subtracts $3.19=20-1,29=30-1$ and $39=40-1$, so $19+29+39=20+30+40-1-1-1$ <br> Amir does a column addition, exchanging 20 ones for 2 tens. <br> Children need to justify the method they think is more efficient, e.g.: <br> Whitney's method involves simple additions. <br> Amir's method does not involve changing any of the numbers. |
| 3 | a) $128 p$ <br> b) 495 cm <br> c) $£ 4.01$ <br> d) $1,402 \mathrm{ml}$ |
| 4 | a) multiple possible answers, e.g.: $\begin{aligned} & 750-200=550 \\ & 550-30=520 \\ & \text { so } 750-230=520 \end{aligned}$ <br> b) multiple possible answers, e.g.: $\begin{aligned} & 750-300=450 \\ & 450+20=470 \\ & \text { so } 750-280=470 \end{aligned}$ <br> c) $\begin{array}{ll} 89-35=54 & 890-350=540 \\ 80-25=55 & 800-250=550 \\ 82-45=37 & 820-450=370 \end{array}$ |
| 5 | a) $£ 92,249$ <br> b) $£ 42,250$ |
| 6 | a) $\begin{aligned} & 10 \times 8=80 \\ & 20 \times 8=160 \\ & 40 \times 8=320 \end{aligned}$ <br> c) $\begin{aligned} & 18 \times 5=90 \\ & 34 \times 5=170 \\ & 5 \times 430=2,150 \end{aligned}$ <br> b) $\begin{aligned} & 18 \times 10=180 \\ & 18 \times 20=360 \\ & 18 \times 200=3,600 \end{aligned}$ <br> d) $\begin{aligned} & 21 \times 6=126 \\ & 7 \times 32=224 \\ & 336=84 \times 4 \end{aligned}$ <br> Children may have used different methods. They need to be able to explain why their method works. |
| 7 | a) 190 <br> b) 460 <br> c) 2,700 <br> d) 34,000 |

