

Adjusting:

Some numbers are easier to add on or subtract. E.g. 10, 100 or 1000. 50, 500 etc

If a number is nearly one of these numbers e.g. 99, 101 or 999 etc we can adjust it to help us calculate mentally. So, 99 becomes 100, 999 becomes 1000, 99p becomes £1. Then we can calculate more quickly. BUT! We must then remember to adjust back again (compensate) by adding or subtracting the extra 1 before we give the final answer.

E.g.

$$136 + 99 =$$

First adjust 99 to 100 by adding 1

Then calculate $136 + 100 = 236$

Then calculate $236 - 1 = 235$ as we added 1 too many so now we must subtract it.

Or

$$462 - 99$$

First adjust 99 to 100 by adding 1

Then calculate $462 - 100 = 362$

Then calculate $362 + 1 = 363$ as we subtracted 1 too many so we must now add it back on.

△ Mentally add 99p by adding £1 and then taking away 1p.

$$\begin{aligned} 56\text{p} + 99\text{p} &= \\ \pounds 1.12 + 99\text{p} &= \\ \pounds 3.50 + 99\text{p} &= \\ \pounds 1.99 + 99\text{p} &= \end{aligned}$$

☐ Mentally add amounts of money by adjusting / compensating.

$$£3.33 + 99p =$$

$$£1.12 + 98p =$$

$$£3.50 + £1.97 =$$

$$£7.99 + £8.98 =$$

☐ Mentally add amounts of money by adjusting / compensating.

$$£3.33 + 99p + 98p =$$

$$£1.12 + 98p + £8.98 =$$

$$£3.50 + £1.97 + 99p + 98p =$$

$$£7.99 + £3.98 + £7.99 + £3.98 =$$

★ Mentally subtract amounts by adjusting / compensating.

$$237 - 31 =$$

$$714 - 51 =$$

$$954 - 699 =$$

$$604 - 190 =$$

$$545 - 71 =$$

$$897 - 103 =$$

$$603 - 28 =$$

$$468 - 201 =$$

$$797 - 499 =$$

$$3008 - 999 =$$

$$454 - 52 =$$

$$704 - 197 =$$