Mental strategies for addition and subtraction



a a

a) Tick the calculations that are equivalent to 46 + 99

40 + 90 + 6 + 9

45 + 100

46 + 90 + 9

99 + 6 + 40

46 + 100 – 1

99 + 40 + 6

b) What method would you use to work out 46 + 99 in your head? Discuss with a partner.

2 Look at Scott's method for working out 364 + 297

Discuss with a partner why Scott's method works.

Use Scott's method to work out these calculations. Show your method.

α) 98 + 28 =

d) 195 + 237 =

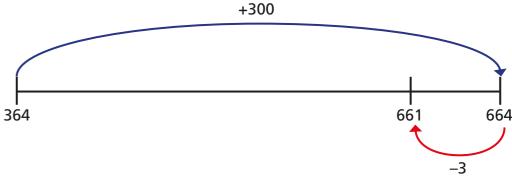
b) 692 + 299 =

e) 567 + 294 =

c) 712 + 995 =

f) 3,756 + 1,997 =

The number line shows a different way to work out 364 + 297



Use a number line to work out these additions.





I can work out 803 – 99 by doing 803 – 100 – 1

Draw a diagram to show the mistake that Dexter has made.

(
l		

Talk about your answers with a partner.



$$180 - 50 = 130$$

$$130 - 7 = 123$$

Use Dora's method to work out these calculations. Show your method.

c) Why are 180 and 360 useful numbers to practise subtracting from?



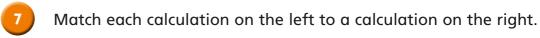
- 6
- a) Circle the calculations that are equivalent to 17.3 + 9.9

$$17.3 + 9 + 0.9$$

$$17.3 + 10 - 0.1$$

$$17.2 + 10$$

b) Which method would you use to work out 17.3 + 9.9 in your head? Explain why.



$$18.7 + 9.9$$

8 Amir and Rosie are comparing methods to subtract 0.26 from 1

Amir's method

$$1 - 0.2 = 0.8$$

 $0.8 - 0.06 = 0.74$
 $1 - 0.26 = 0.74$

$$0.26 + 0.04 = 0.3$$

 $0.3 + 0.7 = 1$
 $0.7 + 0.04 = 0.74$
 $1 - 0.26 = 0.74$

Use your preferred method to complete the calculations.

