Mental addition and subtraction ❶

1 Mo is working out these calculations in his head.

Write the steps that Mo can use to work out each answer.

a) 45 + 32

40 + 30 = ☐

5 + 2 = ☐

45 + 32 = ☐ + ☐ = ☐

b) 56 + 28 = ☐

c) 5 + 374 = ☐

2 Work out mentally the answers to these groups of calculations.

a) 26 + 31 = ☐

31 + 26 = ☐

260 + 310 = ☐

2,600 + 3,100 = ☐

b) 281 + 7 = ☐

7 + 281 = ☐

7 + 1,281 = ☐

7 + 2,810 = ☐

c) 72 + 15 = ☐

15 + 72 = ☐

150 + 720 = ☐

72,000 + 15,000 = ☐

d) 720 + 120 = ☐

120 + 720 = ☐

12,000 + 72,000 = ☐

7,200 + 1,200 = ☐

3 Mo is trying to work out the missing number in his head to this calculation:

$38 + \boxed{} = 90$

Mo

First I work out how many I need to add on to make the next 10.
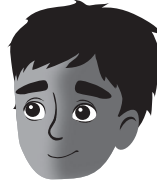
Then I work out how many 10s I need to add.

Complete the calculation that Mo might do in his head to find the answer.

$38 + \boxed{} = 40$ $\qquad\qquad$ $40 + \boxed{} = 90$

The missing number is $\boxed{}$.

4 Use Mo's method in question 3, or your own method, to mentally work out these missing numbers.

a) $56 + \boxed{} = 80$ $\qquad$ **d)** $33 + \boxed{} = 100$

b) $\boxed{} + 14 = 70$ $\qquad$ **e)** $322 + \boxed{} = 380$

c) $64 + \boxed{} = 670$ $\qquad$ **f)** $5,117 + \boxed{} = 5,150$

5 Solve the following calculations mentally.

a) $270 + \boxed{} = 600$ $\qquad$ **f)** $1,800 + \boxed{} = 3,000$

b) $740 + \boxed{} = 1,000$ $\qquad$ **g)** $38 + \boxed{} = 72$

c) $2,300 + \boxed{} = 7,000$ $\qquad$ **h)** $380 + \boxed{} = 720$

d) $340 + \boxed{} = 900$ $\qquad$ **i)** $29 + \boxed{} = 83$

e) $\boxed{} + 350 = 800$ $\qquad$ **j)** $35 + \boxed{} = 53$

6 Fill in the thought bubbles to show how you can work out each of these calculations in your head.

a) 64 + 83

c) 64 + 830

b) 260 + 197

d) 125 + [ ] = 700

7 Solve these problems mentally.

CHALLENGE

a) 340 + 890 = [ ]

c) 150 + 230 + [ ] = 800

b) 38 + 41 + 199 = [ ]

Reflect

Explain how you can work out each of these calculations in your head.

a) 45 + 32

b) 450 + 380

c) 360 + 198

a) _____

b) _____

c) _____