## Know and use mental addition and subtraction strategies for integers

Ron is working out $46+28$ mentally.


Work out the additions mentally.
You could use a method similar to Ron's.
a) $53+12=$ $\square$ e) $39+25=$
f) $27+18=$
$\square$
b) $44+42=$ $\qquad$

- $76+19$ $\qquad$
c) $35+43=$ $\qquad$ g) $76+19=$
d) $47+25=$ $\square$ h) $13+25+48=$ $\square$

Eva is trying to work out $240+320$ mentally
Write the steps she might follow to work it out.


3
Brett imagines a number line in his head to add two 3-digit numbers.


What two numbers do you think Brett is trying to add together?
$\square$ and $\square$
4) Work out the additions mentally.
a) $300+450=$ $\square$
d) $180+320=$ $\square$
b) $310+250=$ $\square$
e) $680+170=$ $\square$
c) $430+360=$ $\square$ f) $450+390=$ $\square$

Work out the additions mentally. Then write the steps in your thinking.
$\square$
a) $170+570=$
b) $250+250+380=$ $\square$

6
Amir wants to add together 72 and 99
I added 100 to 72 and
then subtracted 1


Amir is correct.
Explain why Amir's method works.

Use a method similar to Amir's method in question 6 to work out the additions mentally.
a) $65+99=$ $\square$
e) $54+98=$ $\square$
b) $99+38=$ $\square$
f) $97+438=$ $\square$
c) $156+99=$ $\square$
g) $732+190=$ $\qquad$
d) $99+294=$ $\square$
h) $199+237=$ $\square$
(8) The number line shows what Kim does mentally to work out 54-26


Show the calculation you might do mentally to work out $182-37$
(10) Rosie is working out 244-99 mentally

II Work out the calculations mentally.
a) $274 \mathrm{~kg}-99 \mathrm{~kg}=\square \mathrm{kg}$
b) $£ 200-£ 156=\mathrm{f}$
c) 1 litre $-270 \mathrm{ml}=$
$\square$
d) $374 \times 2=$ $\square$
e) $£ 25,000+£ 176,000=£$
f) $£ 10,000-£ 3,725=£ \square$

Talk about your method with a partner.

$\square$

Here are some subtractions.
Work them out mentally.
a) $48-26=$

f) $356-99=$ $\square$
b) $270-160=$

g) $8-12=$

c) $380-182=$

h) $150-78=$
i) $1,000-276=$ $\qquad$
e) $320-260=$ $\square$

