Over the next few days and weeks your child will be learning about two-step problem-solving. Your child needs to know the language associated with two-step problem-solving - How many?, What's the difference?, tens, units, break, subtract, subtraction, take away, more, less, fewer, minus, number sentence/story, count back/forward, short way, another method/way, complete, estimate, Do I add or do I subtract?, Do I need to rename or regroup?, etc.
Note: Two-step problem-solving usually involves the use of brackets, for example, $(7+8)-5=10$. The brackets tell us to do the operation that is inside them first. That means we add the 7 and 8 to get 15 and then we take away the 5 .

## Two-step problems on the hundred square

Ask your child to make a hundred square, as done in earlier exercises on addition and subtraction. Give him/ her a counter, cube or coin. Call out any number that is on the hundred square. Start with simple numbers that are within ten, for example say: Place your counter on the number 6. Now add 3 to that number/count on 3. Where will you land? (Yes! 9.) Now take away 4 from that number/count back 4 on the hundred square. Where will you land? (Yes! 5.) Now ask your child to make a number story for that activity, for example: I had six eggs. I got three more from the fridge. I used four eggs to make a cake. How many eggs had I left? (Yes! Five.)
Extension: Ask your child to make a number sentence for the number story, i.e. $(6+3)-4=5$. This should help your child to understand the value of brackets.

## Bigger numbers

You can now build up to more difficult problems.
For example, ask your child to place the counter on 30 on the hundred square. Say: Move forward 20 and come back 10. Where are you now?
Now ask your child to make a number story for that activity, for example, I had 30 marbles. I won 20 more in a game. I then lost 10 in the field. How many marbles had I left? (Yes! 40.) or I had 30c. My friend gave me 20c. I gave 10c to my little sister. How much had I then? (Yes! 40.) Ask your child to make a number sentence for the number story, i.e. $(30+20)-10=40$.
You should only advance to the more difficult problems when your child is comfortable doing two-step problems within 10/20/30, etc.

For example, say: Place your counter on the number 26. Now add 13 to that number/count on 13. Where will you land? (Yes! 39.) Now take away 24 from that number/ count back 24 on the hundred square. Where will you land? (Yes! 15.)
Now ask your child to make a number story for that activity, for example, I had 26c. I got 13c more from my dad. I bought a pencil for 24c in the shop. How much money had I left? (Yes! 15c.) Ask your child to make a number sentence for the number story, i.e.
$(26+13)-24=15$.

## The ladder

Give your child a counter and ask him/her to draw a ladder as in the picture below.


Call out a number, for example, 5. Your child should place his/her counter on rung 5 on the ladder. Now ask your child to go up 8 rungs and to then come down 5 rungs. Now ask your child: Where are you on the ladder now? Do this with a number of two-step problems within 25.

Here are samples:

- Place your counter on rung 6. Go up 7 rungs and then come down 3 rungs.
- Place your counter on rung 2. Go up 8 rungs and then come down 5 rungs.
- Place your counter on rung 9.

Go up 5 rungs and then come down 6 rungs.

- Place your counter on rung 7.

Go up 9 rungs and then come down 4 rungs.

- Place your counter on rung 8.

Go up 10 rungs and then come down 2 rungs.

## The tin box

Get a tin box/cup/mug, or anything that is to hand. Give your child some counters/cubes/coins, etc. Give him/her a simple word problem, for example: I placed eight coins in the box. I then took out five. Later, I put in nine. How many coins are in the box now? Ask your child to make up the number sentence for the number story: $(8-5)+9=$ ?
Ask him/her to place eight coins in the box. Now ask him/her to take out five. Ask: How many coins are in the box now? Proceed by asking your child to put nine coins in the box and ask: How many coins are in the box now? How did you get the answer? (Yes! $3+9=12$.) Practice this exercise with other simple word problems.

