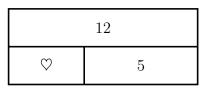
- 1. Use the block diagram to complete
 - (i) these 3 solve equations: $\dots \blacklozenge = \dots$ $\dots + \blacklozenge = \dots$ $\land + \dots = \dots$ $\land \land + \dots = \dots$
 - (ii) the answer calculation: $\blacklozenge = \ldots \ldots = \ldots$
- 2. (a) Solve $12 \heartsuit = 5$

You may use this block diagram if it helps you.





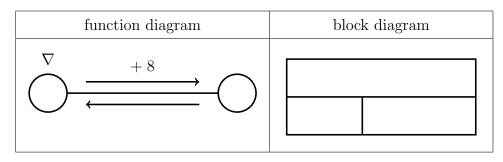
(b) Solve $7 + \blacklozenge = 13$

You may use this block diagram if it helps you.

| 13 | |
|----|---|
| 7 | • |

- 3. (a) Solve $9 + \heartsuit = 16$
 - (b) Solve $14 \blacklozenge = 6$
- 4. Complete the **function** diagram to solve $\nabla + 8 = 13$

You may use the block diagram if it helps you.



 $\heartsuit = \dots \dots$

=



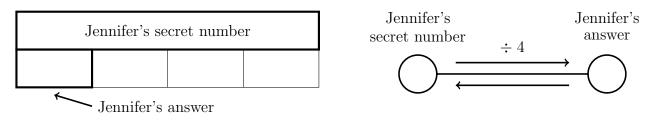
 $\nabla = \dots \dots$

5. Jennifer is thinking of a secret number.

She divides her secret number by 4 and gets the answer 3.

Write down Jennifer's secret number.

You may use the boxes diagram or the function diagram if they help you.



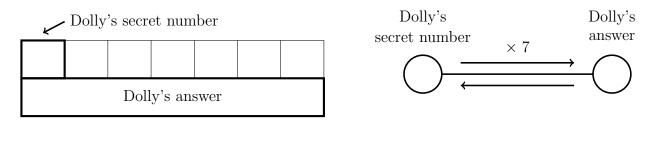
5.

6. Dolly is thinking of a secret number.

She multiplies her secret number by 7 and gets the answer 21

Write down Dolly's secret number.

You may use the boxes diagram or the function diagram if they help you.



- 7. (a) Honey is thinking of a secret number.She divides her secret number by 2 and gets the answer 6Write down Honey's secret number.
 - (b) Igor is thinking of a secret number.He multiplies his secret number by 2 and gets the answer 6Write down Igor's secret number.

(b)

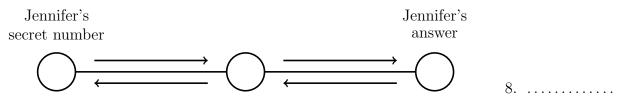
(a)

8. Jennifer is thinking of a secret number.

She multiplies her secret number by 2, subtracts 6 and gets the answer 14

Write down Jennifer's secret number.

You may complete the function diagram if it helps you.



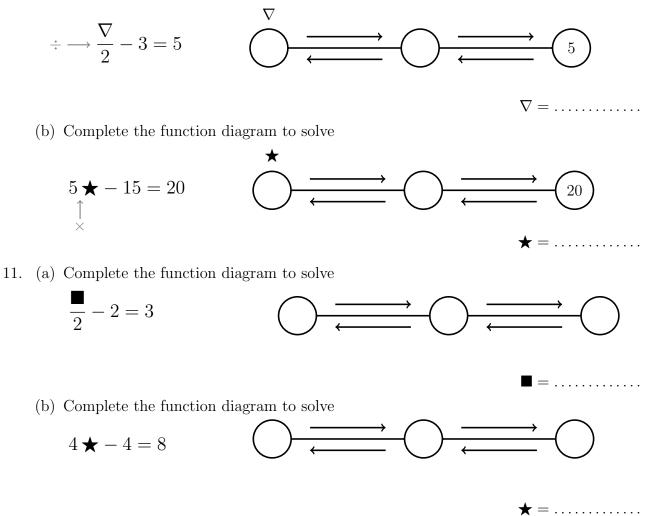
9. Sean is thinking of a secret number.

He multiplies his secret number by 3, adds 18 and gets the answer 30

Write down Sean's secret number.

9.

10. (a) Complete the function diagram to solve



=

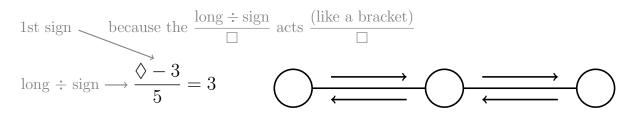
 $\Diamond = \dots \dots$

12. (a) Complete the function diagram to solve

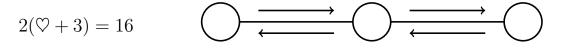
1st sign because it's inside the bracket

$$2(\spadesuit - 3) = 14$$

(b) Complete the function diagram to solve

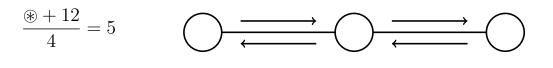


13. (a) Complete the function diagram to solve



 $\heartsuit = \dots$

(b) Complete the function diagram to solve



 $* = \dots$

14. (a) Solve $\frac{\clubsuit}{7} + 19 = 21$



(b) Solve $6(\bigstar - 5) = 24$