## Year 2: Week 2, Day 1 <br> Doubles and halves

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the Learning Reminders. They come from our PowerPoint slides.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Have I mastered the topic? A few questions to Check your understanding.
Fold the page to hide the answers!

## Learning Reminders

## Double by partitioning.

We can use place value cards to help us double numbers!

To find double 23 , first make $\mathbf{2 3}$ twice.

| 2 | 3 | 2 | 3 |
| :--- | :--- | :--- | :--- |

Re-order the numbers.
Can you see how?


Re-combine the numbers.

20
20
 3


We can record this as:

$$
23+23=20+20+3+3
$$

$$
=40+6
$$

$$
=46
$$

Learning Reminders

## Double and halve by partitioning.



Learning Reminders
Double and halve by partitioning.


Partition the number.

Halve 40 then halve 6.


Then re-combine.
Half of $\mathbf{4 6}$ is 23.

## Practice Sheet Mild Doubles and halves

Draw the number of cubes in the box to create the double. Write the double. Then write the half.


## Challenge

Double $\square$ is 18 Half of $\square$ is 12 Double $\square$ is 20
A ladybird has 7 spots on one of its wings. How many spots are there in total on both wings?
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## Practice Sheet Hot <br> Doubling and halving to find pairs of numbers

Pick a number, either halve or double it using partitioning and then draw a line to link it to its inverse

| 36 |
| :---: |
| Halve me |



## Challenge

Pick a ones number and double it. Keep doubling the answer until you reach 100.
How many times did you have to double it?

## Practice Sheets Answers

## Doubles and halves (mild)

a) Half of $12=$
 Double

h) Half of $30=15$ Double $15=30$
b) Half of $16=8$ Double $8=16$
i) Half of $22=11$ Double $11=22$
C) Half of $8=4$ Double $4=8$
d) Half of $18=9$ Double $9=18$
e) Half of $14=7$ Double $7=14$
f) Half of $20=10$ Double $10=20$
g) Half of $24=12$ Double $12=24$
j) Half of $28=14$ Double $14=28$
k) Half of $26=13$ Double $13=26$
l) Half of $0=0$ Double $0=0$


Doubling and halving to find pairs of numbers (hot)
36 halve me 18 double me 36
42 double me 84 halve me 42
68 halve me 34 double me 68
37 double me 74 halve me 37
94 halve me 47 double me 94
28 halve me 14 double me 28





## Check your understanding

## Questions

Double $13=\triangle$

Double $\triangle$ is $\diamond$

Double $\diamond$ is $\square \quad$ Find $\triangle, \diamond$ and $\square$

## Check your understanding

Answers

Double $13=26$
Double 26 is 52
Double 52 is 104 Find $\triangle, \diamond$ and $\square 26,52,104$.

Do children partition each number twice to find the double? An answer of 42 for double 26 suggests children were not sure what to do when the sum of the 1 s is greater than 10.

