

Twos, Doubling and Halving

Multiplication facts for twos and the division facts that go with them

ELABORATION FOCUS

Recalling the multiplication facts for twos quickly, then extending them to the related division facts using doubling and halving.

LEARNING INTENTION I can double to multiply by 2 and halve to share into 2.

Groups of 2

Double

Half

Skip count

Arrays

1

Build Groups of Two

Step 1: make 6 groups of 2 cubes. Step 2: skip count 2, 4, 6, 8, 10, 12.

2

Double It

Step 3: see that 6 twos is double 6. Step 4: say $6 \times 2 = 12$.

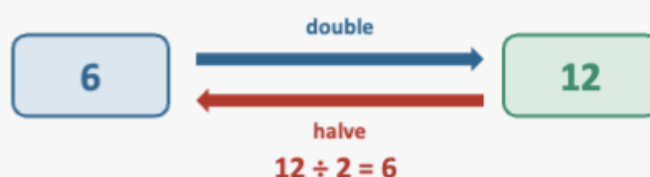
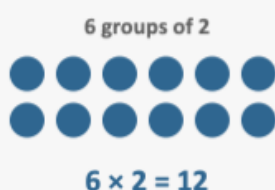
3

Halve It Back

Step 5: split 12 into 2 equal parts. Step 6: half of 12 is 6, so $12 \div 2 = 6$.

MODEL · DOUBLING AND HALVING WITH 6 AND 12

Double to go one way, halve to come straight back the other way.



Double 6 is 12, and half of 12 is 6.

If you know $6 \times 2 = 12$, then $12 \div 2 = 6$ and $12 \div 6 = 2$.

TEACHER MODELLING ROUTINE

I do → We do → You do

WATCH FOR

Counting every cube one by one instead of skip counting or doubling.

REMEMBER

Say it to students as: "Times 2 is double. Divide by 2 is half."

MATERIALS

Connecting cubes, counters, egg cartons, array cards, number lines, dot cards.