

# Multiplication Madness 2

**Year**

5

**Focus**

Multiplying decimal numbers

**What's needed**

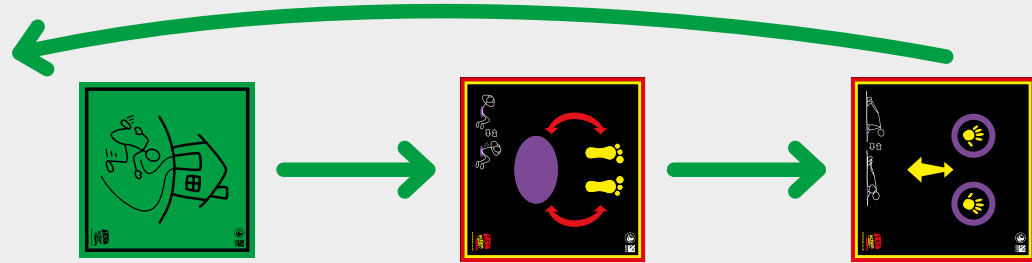
x4 Home Mats

**Action Mats required:**  
Action Mats of your choice

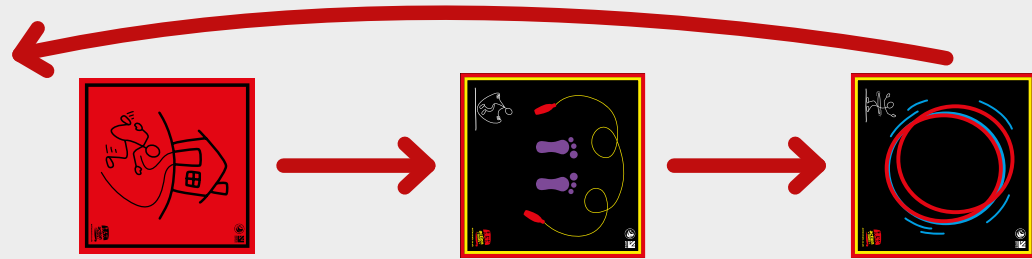
**Maths mats required:**  
Single digit and 10, 11 and 12



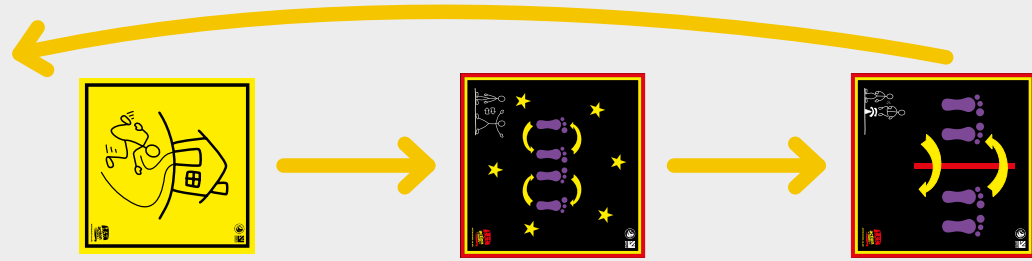
$$24 \times 14.1 =$$



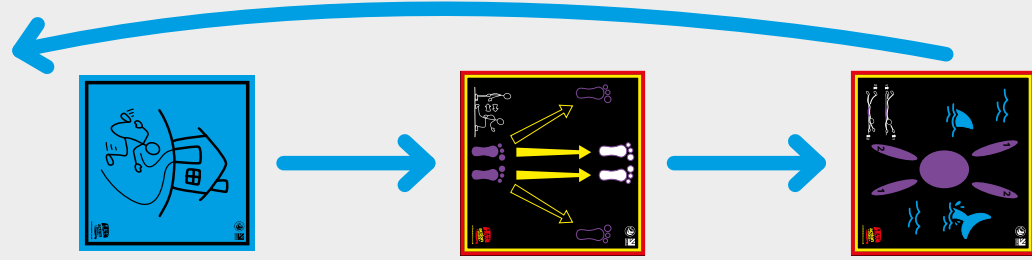
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## Warm Up

### Times table teamwork

Have the numbers 1 – 12 spread around the room.

Have students work in pairs

Call out the answer to a simple multiplication from a times table they should know, along with an action they must do (eg, star jumps).

As a pair they must move to correct number mats to complete the correct number of actions to make a multiplication equation. Eg, if the answer is 12 one student must do 4 and the other 3 star jumps to make  $4 \times 3 = 12$ .

## Main task

### Multiplication Madness 2

Students should be grouped into 4s. Each group should be allocated to a Home Mat. All team members stand behind the Home Mat apart from the person who is first in the queue who stands on the Home Mat.

Each group will need a whiteboard

The class are given a pre-prepared multiplication that includes decimal places, start with just one number having a decimal place, eg  $24 \times 14.1 =$

The group first must determine how many decimal places the answer will have, without working out the answer. The group then run a relay through their two action mats, the number of decimal places that will be in the answer dictates how many actions they must each do on each action mat. (Eg, for  $24 \times 14.1$  will only have one decimal place in the answer so they only do one action, for  $24.3 \times 14.1$  there would be two decimal places in the answer, for  $24.32 \times 14.1$  there will be three decimal places etc.) This activity emphasizes that we do not line up the decimal point for multiplying decimals, we can even ignore it entirely until we reach the final answer and then work out how many numbers are “behind the decimal point”.



For higher ability children start with more decimal places, or prepare word problems for them to answer, eg, a farmer sells 1kg of oats at a cost of £24.63, a baker wanted to buy 4.75kg of oats to make flapjacks, how much would this cost him?