

A Bit Stuck? Mark and round

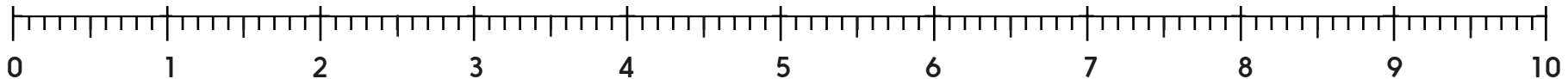
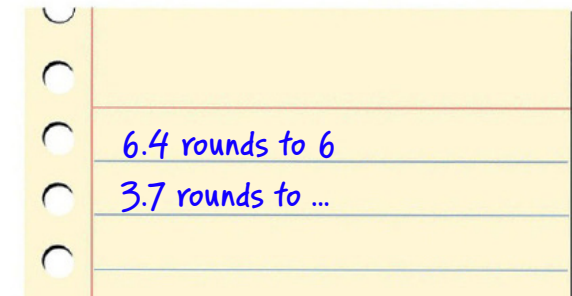
Work in pairs, but write on your own sheet

What to do:

- Shuffle the digit cards.
Turn them face down.
Take the top two cards and make a number with one decimal place, e.g. take 6 and 4 to make 6.4.
- Mark this number on the line.
- Round this number to the nearest whole number.
- Repeat.
- When all the cards have been used, shuffle them and place face down. That way you can keep playing.
- How many numbers can you mark and round before time is up?

Things you will need:

- 0 to 9 digit cards
- A pencil

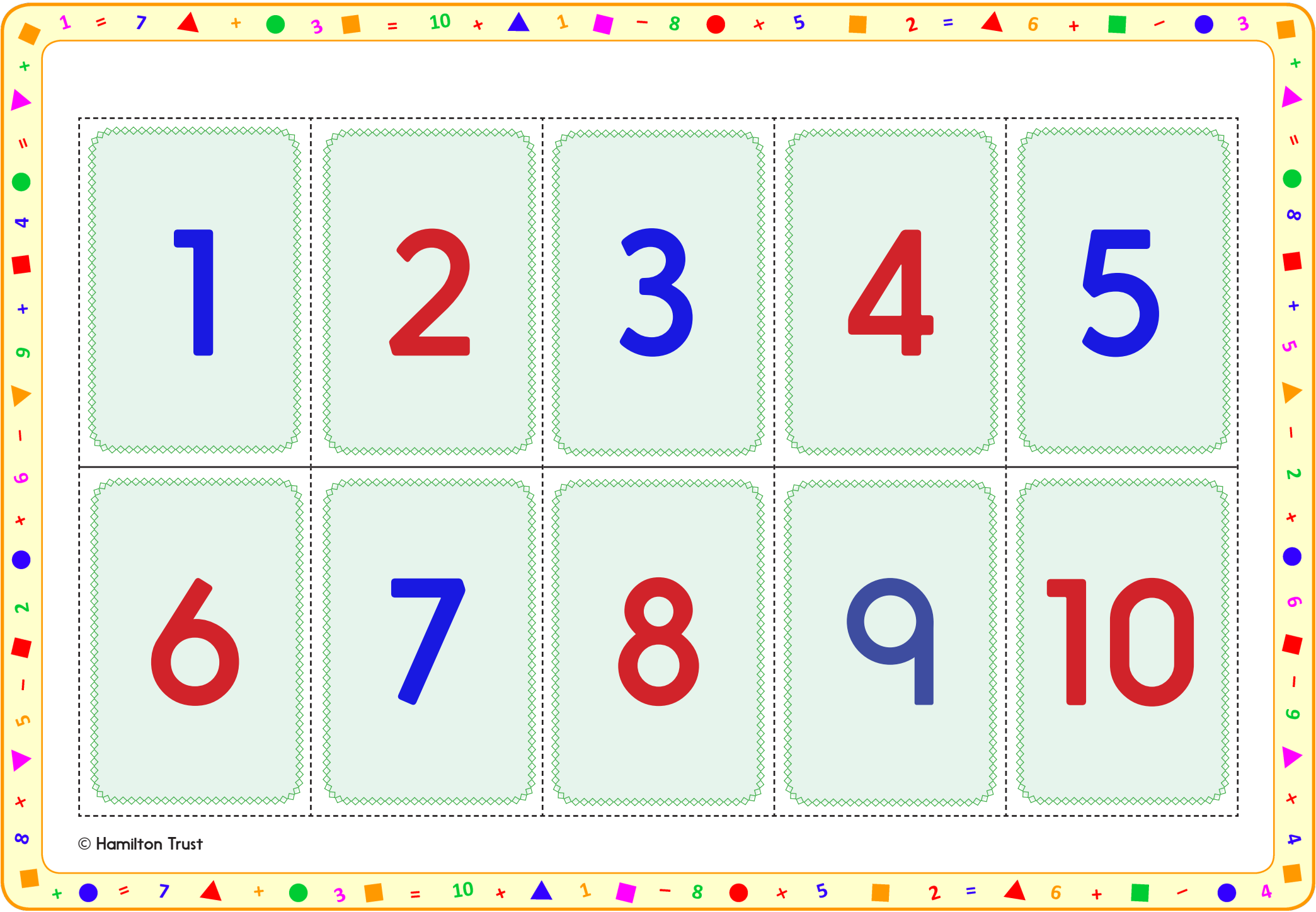


S-t-r-e-t-c-h:

Think of two numbers between 4 and 5, one which rounds down to 4 and one which rounds up to 5.

Learning outcomes:

- I can mark numbers with one decimal place on a marked number line.
- I can round numbers with one decimal place to the nearest whole.
- I am beginning to solve problems involving rounding to the nearest whole.



1	2	3	4	5
6	7	8	9	10

© Hamilton Trust

Check your understanding

Questions

What number am I? (three clues for just one number – guess after each clue)

A

- (i) I round to 5.6 as the nearest tenth.
- (ii) I round to 6 as the nearest whole number.
- (iii) My digital root is 6.

B

- (i) I round to 3.5 as the nearest tenth.
 - (ii) I round to 3 as the nearest whole number.
 - (iii) My digits are consecutive.
-

Sam wrote:

2.49 rounds to 3 as the nearest whole number because 2.49 rounds to 2.5 as the nearest tenth, and 2.5 rounds up to 3 as the nearest whole number.

Explain why his reasoning is incorrect.

Fold here to hide answers:

Check your understanding

Answers

What number am I? (three clues for just one number – guess after each clue)

A

- (i) I round to 5.6 as the nearest tenth.
- (ii) I round to 6 as the nearest whole number.
- (iii) My digital root is 6. **5.55 or 5.64**

B

- (i) I round to 3.5 as the nearest tenth.
 - (ii) I round to 3 as the nearest whole number.
 - (iii) My digits are consecutive. **3.45**
-

Sam wrote:

2.49 rounds to 3 as the nearest whole number because 2.49 rounds to 2.5 as the nearest tenth, and 2.5 rounds up to 3 as the nearest whole number.

Explain why his reasoning is incorrect.

This is a common misunderstanding. To round 2.49 to the nearest whole, the original number must be used. It can be checked on a number line that 2.49 is closer to (and therefore rounds to) 3 not 4.