Number Bonds to 10 and 20
'Card Match' and 'Climb the Money Ladder'

Main curriculum links
N1/E1.4 Add single-digit numbers with totals to 10
- understand the operation of addition and related vocabulary (add, more than, sum of, total, etc.)
- know all pairs of numbers with a total of 10
- understand that addition is commutative (the concept not the terminology)

N1/E1.5 Subtract single-digit numbers from numbers up to 10
- understand the operation of subtraction and related vocabulary (difference, take away, less than, etc.)
- understand that subtraction is the inverse of addition

N1/E2.4 Recall addition and subtraction facts to 10.
- understand that there are different strategies to help with mental addition and subtraction
- understand that subtraction is the inverse of addition

N1/E3.3 recall addition and subtraction facts to 20
- understand that there are different strategies for adding and subtracting

MSS1/E1.1 recognise and select coins and notes
- know the names and values of coins and notes

Instructions for page 3
(makes a set of 48 cards)

- Print two copies of page 3, using a different colour of card for each set of copies.
- Laminate and cut out.
- Put 'problem' cards (p2) in one colour with 'answer' cards (p2) of a different colour.
- Use all the cards or select cards as appropriate for learners

Matching or memory game

- Play as an individual matching game, matching and lining up the cards.
- Play as a paired memory (pelmanism) game:
  Place all cards face down. Player 1 turns over one card in each colour (whilst player 2 watches carefully). If the cards 'match' player 1 keeps them and has another go. If the cards don't match they are returned (face down) to their original positions and player 2 takes a turn. Continue until all cards are removed. Player with the most cards wins!

Paired / small group matching game

- Shuffle the "answer" cards and put them in a pile face down on the table.
- Put the "problem" cards face up on the table so that all the numbers can be seen.
- Each student takes turns to pick up a card from the pile and then finds the corresponding "problem" card.

Alternative version

- Shuffle the "problem" cards and put them in a pile face down on the table.
- Put the "answer" cards face up on the table so that all the numbers can be seen.
- Each student takes turns to pick up a card from the pile and then finds the corresponding "addition" card.

Discussion points

- Emphasise the fact that, when adding, you can swap the numbers around (e.g. to make the sum easier) and still get the same answer, but the same does not apply to subtraction.

This resource was kindly contributed by Jean Thomas (The Henley College) jean@jeanthomas.co.uk

Instructions for page 4
Climb the money ladder

Preparation

- Laminate (or print on card) all spinners and cut out.
- Insert matchstick in centre of each spinner
- Print one ladder sheet for each pair of students

You need

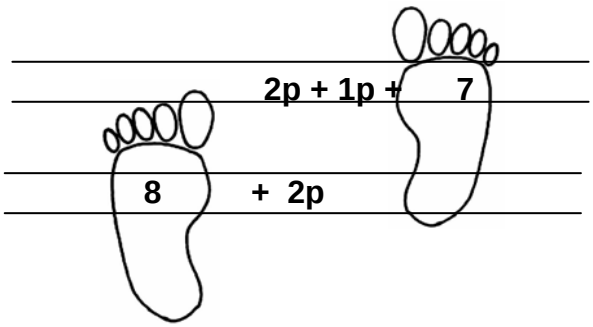
- A number spinner (page 6) E2 use numbers to 10 spinner E3 use numbers to 11 - 20
- A money spinner E2 use spinner A (page 5) E3 use spinner B (page 7)
- Pencils
- Ladder sheets

To play

The game is for 2 players:

- First decide which set of feet are yours.
- To get to the top of the ladder before your partner you must make up sets of numbers and money that make 10.
- Use the number spinner to put numbers on the feet. Use the money spinner to try to make this number up to 10. Write in the correct coins on the ladder when you spin the right coins.
- If you don't get the right coins on the first spin the 2nd player has their turn.
- On your next go you must spin the money spinner again. When you have completed one rung of the ladder spin the number spinner to climb the next foot.
- Keep going until you get to the top.

Example



Vocabulary and bonds

10 take 2	= 8	8 from 10	= 2
2 plus 8	=10	10 take away 6	= 4
4 less than 10	= 6	6 add 4	= 10
10 take 7	= 3	3 add 7	= 10
10 minus 3	= 7	7 plus 3	= 10
10 minus 9	= 1	1 less than 10	= 9
9 add 1	= 10	10 from 10	= 0
5 from 10	= 5	5 plus 5	= 10
10 take 2	= 8	8 add 2	= 10
10 minus 6	= 4	4 add 6	= 10
10 subtract 1	= 9	9 more than 1	= 10
10 minus 10	= 0	0 plus 10	= 10

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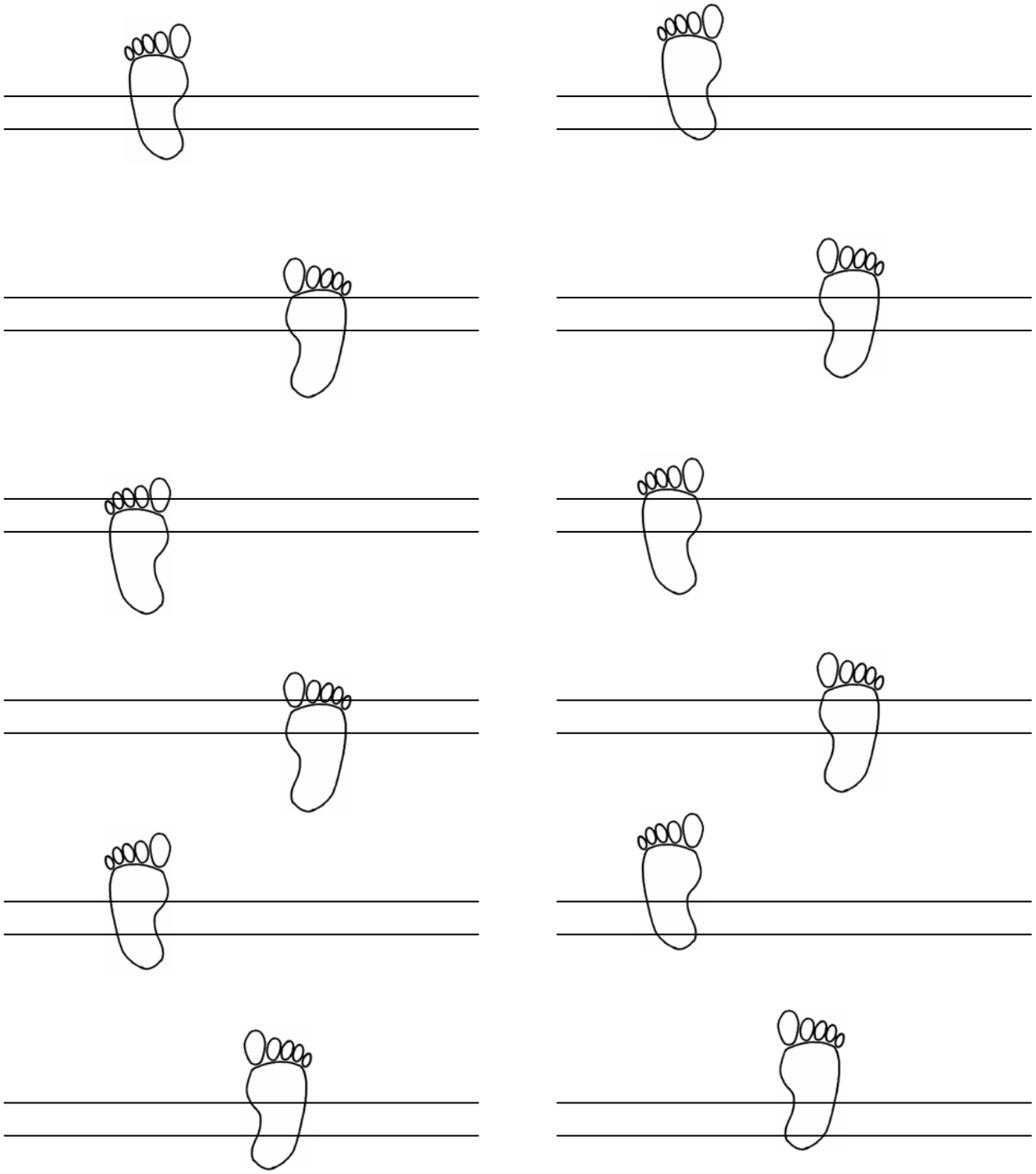
The Money Ladder

You win when you reach the top.



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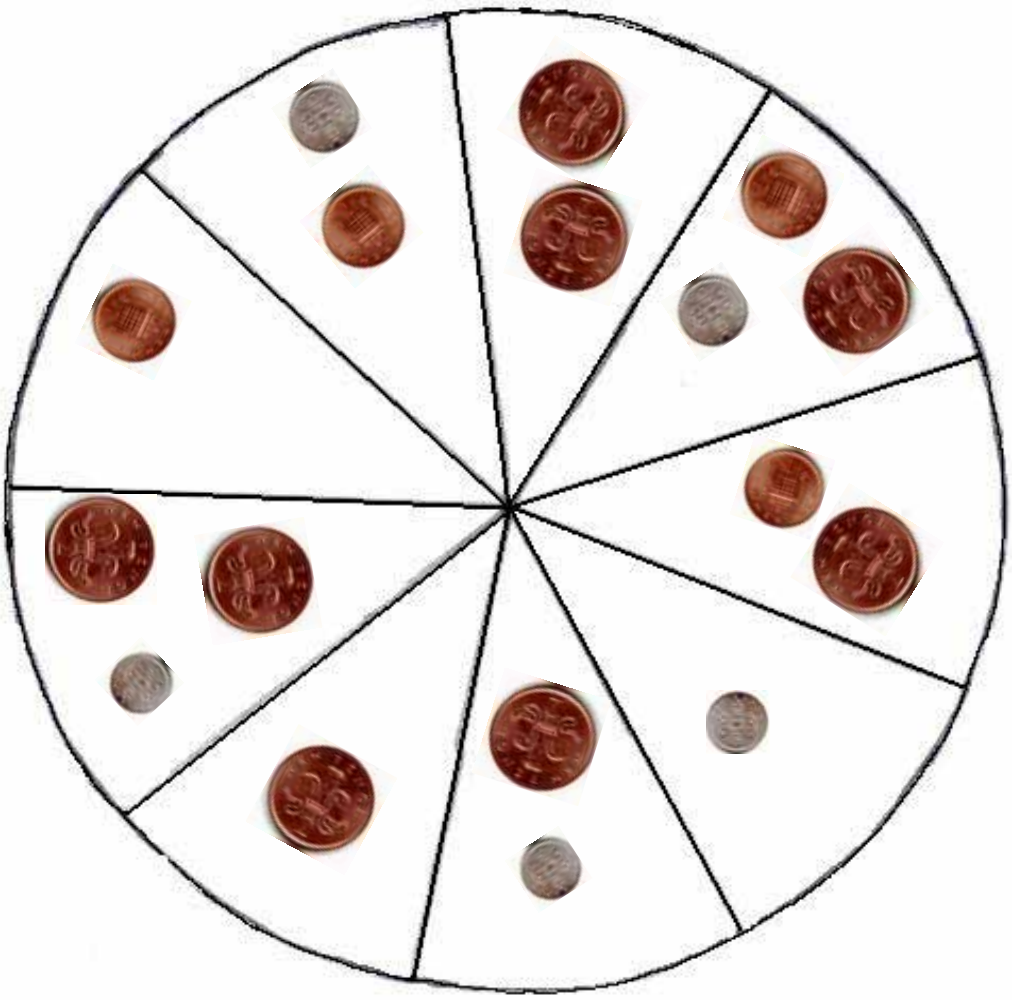
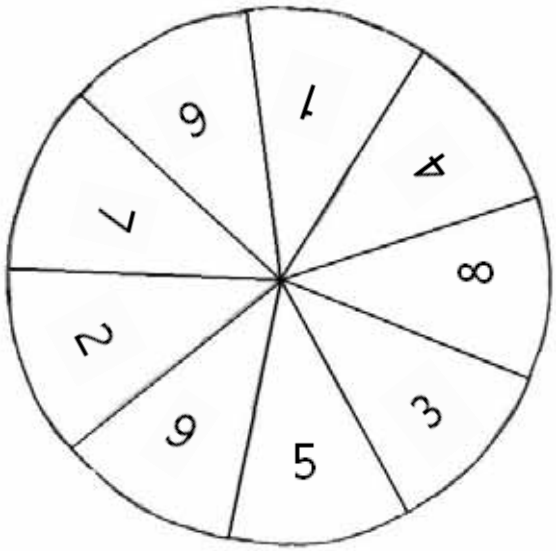
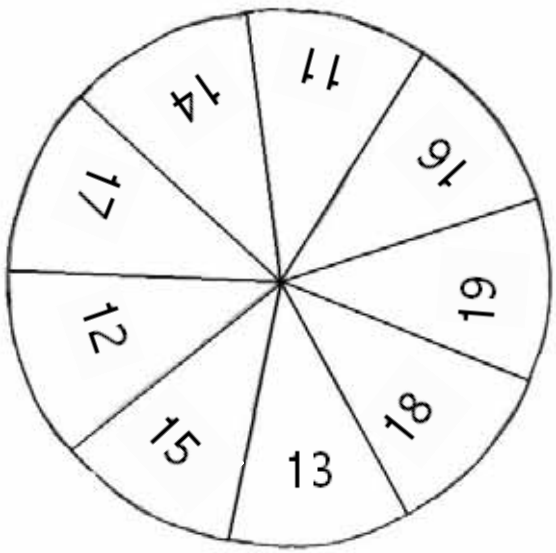
Main links (details p1): N1/E1.4, E1.5, E2.4, E3.3 Recall number facts to 10/20. Use mathematical vocabulary. MSS/E1.1 Know coin values.

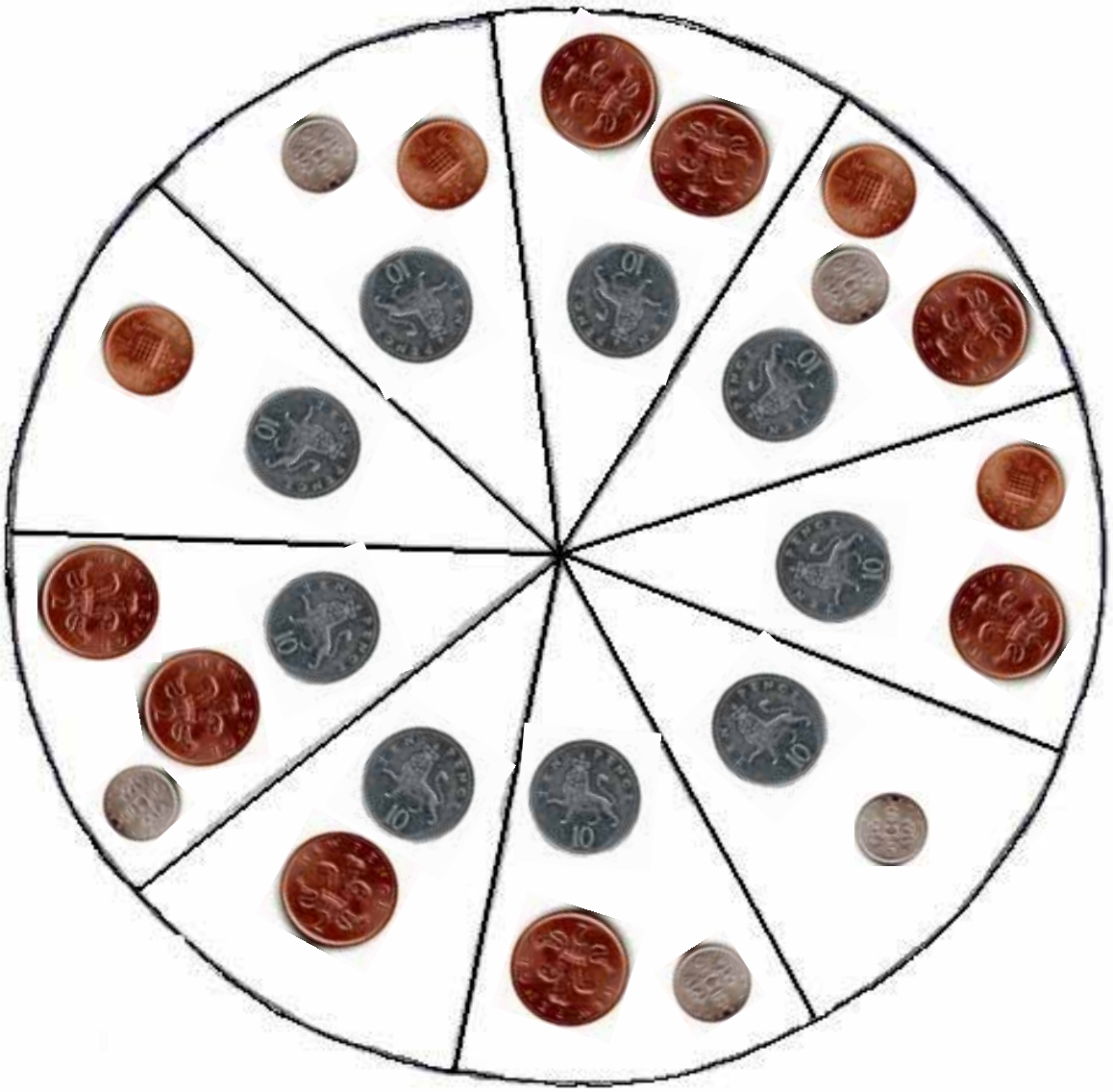
Money spinner A



Number spinners







Money spinner B