

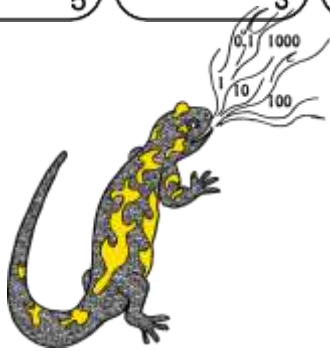
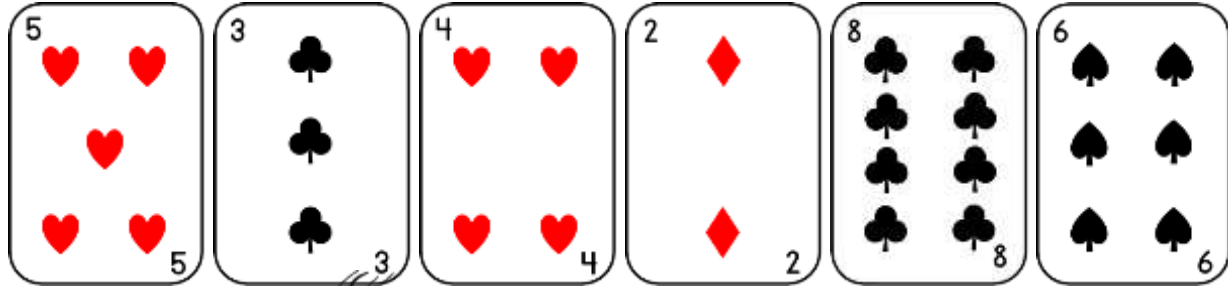
Name

Date



4-CARD TRICK

Flame salamander has chosen 4 cards from the pile below for a card trick.



She says that the 4 cards she has chosen make a total of less than 20.

She says that the lowest value card is an even number.

Which cards could she have chosen?

Find all possibilities.

What if her 4 cards had made a total of 20 or more, but the lowest card was still even?



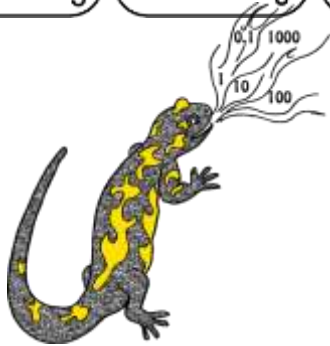
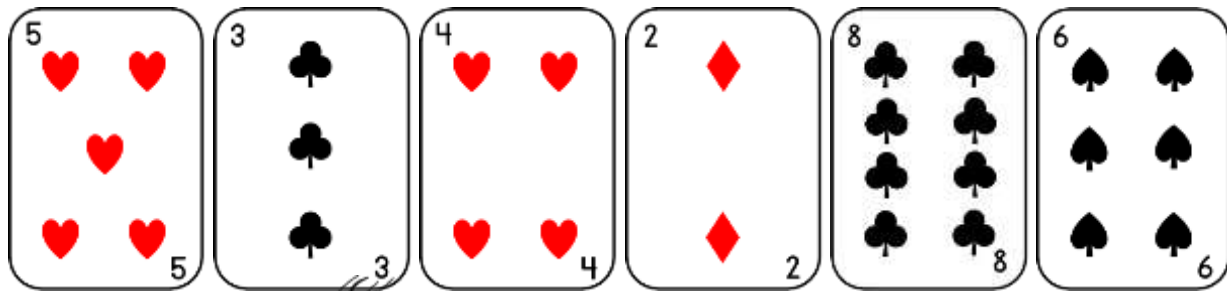
Name

Date



4-CARD TRICK ANSWERS

Flame salamander has chosen 4 cards from the pile below for a card trick.



She says that the 4 cards she has chosen make a total of less than 20.

She says that the lowest value card is an even number.

Which cards could she have chosen?

There are 8 possibilities.

$2 + 3 + 4 + 5 = 14$	$2 + 3 + 4 + 6 = 15$	$2 + 3 + 4 + 8 = 17$
$2 + 3 + 5 + 6 = 16$	$2 + 4 + 5 + 6 = 17$	$2 + 3 + 5 + 8 = 18$
$2 + 4 + 5 + 8 = 19$	$2 + 3 + 6 + 8 = 19$	

What if her 4 cards had made a total of 20 or more, but the lowest card was still even?

There are 3 possibilities.

$8 + 6 + 5 + 4 = 23$	$8 + 6 + 5 + 2 = 21$	$8 + 6 + 4 + 2 = 20$
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