

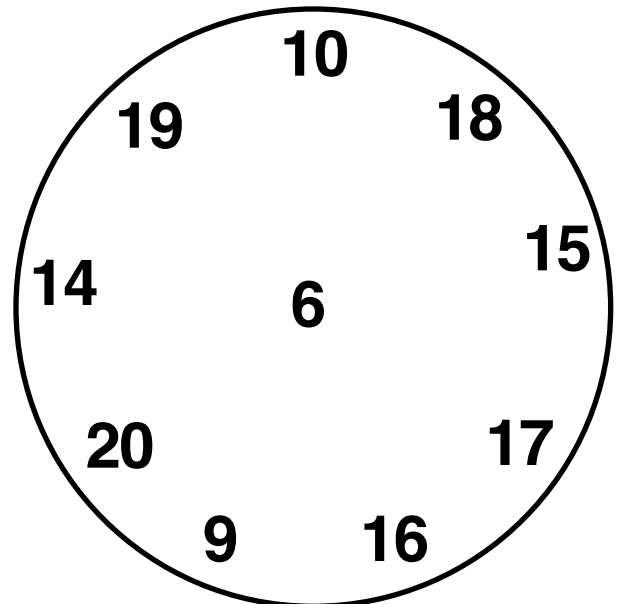
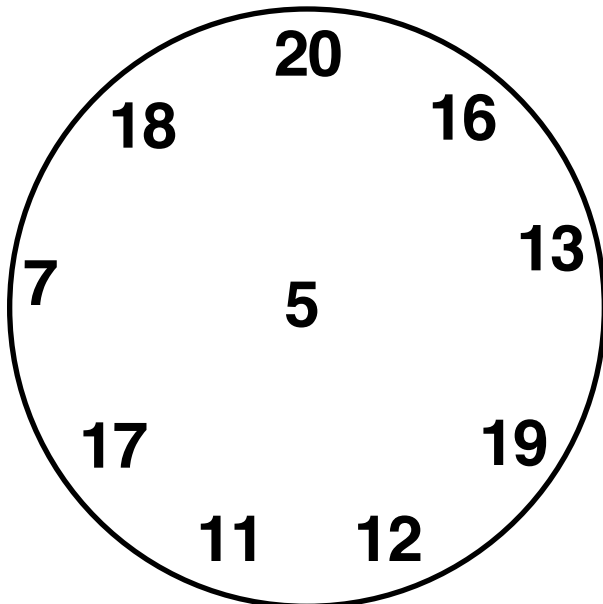
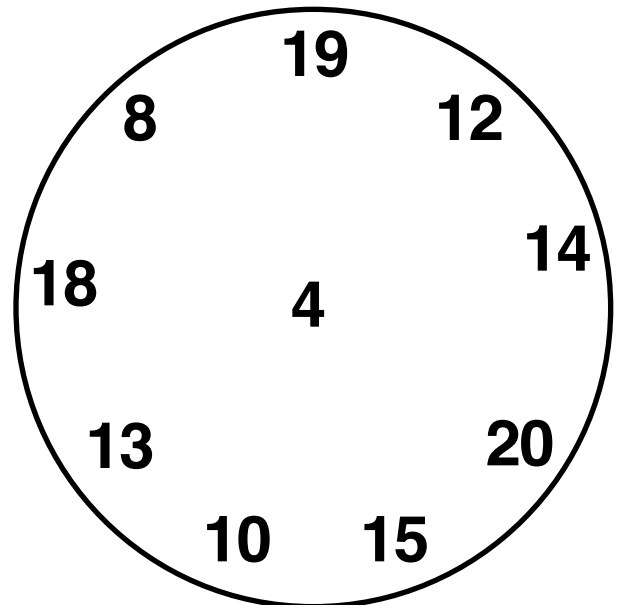
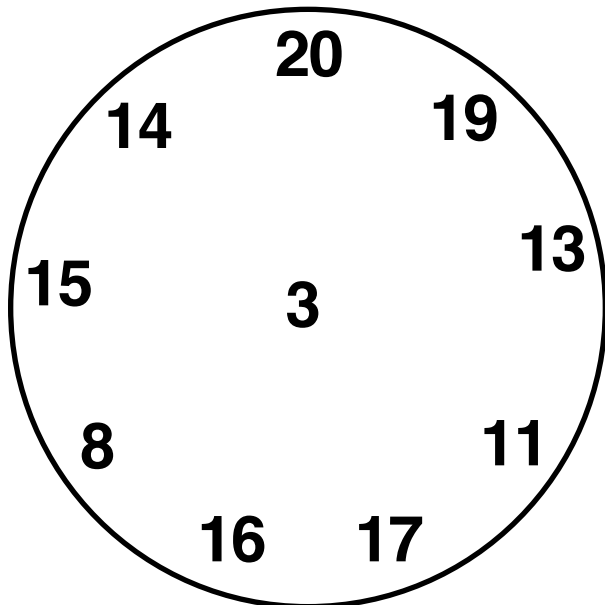
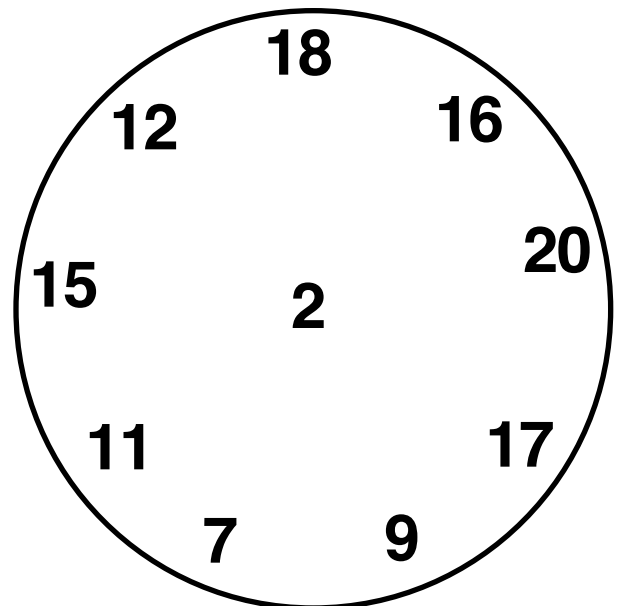
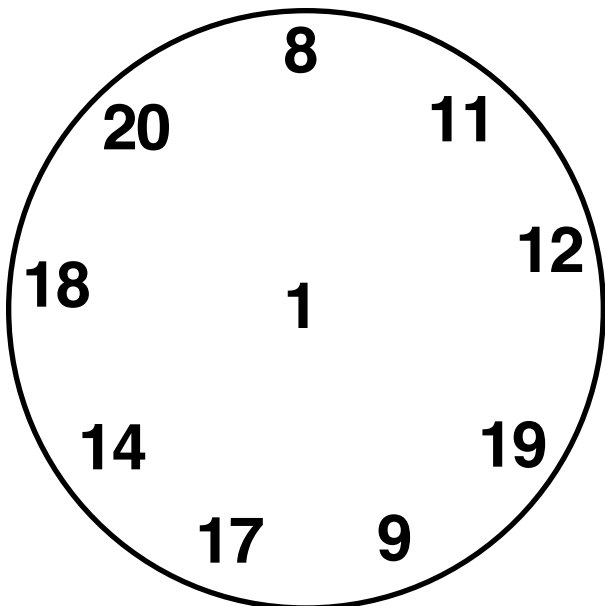
Telling Time

Version 2

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Telling Time

Cut out the six cards. Place the six cards on the desk. Ask a student to think of a number between 1 and 20 inclusive. Turn your back to the desk so you cannot see the cards. Tell the student to pick up every card that has their number on it. You look at the remaining cards and you can immediately announce their number.



Telling Time Version 2

Procedure:

Cut out the six cards. Place the six cards on the desk. Ask a student to think of a number between 1 and 20 inclusive. Have them tell a friend. Turn your back so you cannot see which cards they pick up. Tell the student to pick up every card that has their number on it. **Emphasize that you did not see them take the cards.** Turn around and look at the remaining cards and immediately announce their number. If they say that is not their number have the friend verify you are correct.

How Its done

Add the numbers in middle of every card left over on desk and subtract the sum from 21 to get the number they thought of.

The total of the middle numbers on the cards they selected will total their number. If they see that remind them that it does not help you find their number because you did not see the cards they took.

A detailed explanation of how the trick works and how the cards are made is included in the Telling Time Version 1 document.

How to make the cards

Draw 6 cards in the shape of a circle. Put a 1 in the center of the first card, a 2 in the center of the second card, a 3 in the center of the third card, a 4 in the center of the fourth card, a 5 in the center of the fifth card and a 6 in the center of the sixth card

Express a number from 7 to 20 as the sum of any combination of the numbers 1, 2, 3, 4, 5 without using them more than once in the sum. Put that number on the outside of the cards with the centers whose numbers made up the sum. Do this for all the numbers 7 to 20 one number at a time.

Example. Start with the number 7. Express 7 as the sum of any combination of the numbers 1, 2, 3, 4 and 5 without using them more than once in the sum. Put 7 on the outside of each of the cards that you used to create the sum for 7.

$12 = 1 + 2 + 4 + 5$. Put the number 12 on the outside of each of the cards with a 1, 2, 4 and 5 in the center of a card

The numbers 7 to 20 expressed as the sum of any combination of the numbers 1, 2, 3, 4, 5 and 6 without using any one of them more than once in the sum.

Number selected	How it will be expressed	the number is placed on the following cards in the locations shown
1	1 in center	1 in the center of Card 1
2	2 in center	2 in the center of Card 2
3	3 in center	3 in the center of Card 3
4	4 in center	4 in the center of Card 4
5	5 in center	5 in the center of Card 5
6	6 in center	6 in the center of Card 6
7	$2 + 5$	7 on the outside of Cards 2 and 5
8	$1 + 3 + 4$	8 on the outside of Cards 1, 3, and 4
9	$1 + 2 + 6$	9 on the outside of Cards 1, 2 and 6
10	$4 + 6$	10 on the outside of Cards 4 and 6
11	$1 + 2 + 3 + 5$	11 on the outside of Cards 1, 2, 3 and 5
12	$1 + 2 + 4 + 5$	12 on the outside of Cards 1, 2, 4 and 5
13	$1 + 3 + 4 + 5$	13 on the outside of Cards 1, 3, 4 and 5
14	$1 + 3 + 4 + 6$	14 on the outside of Cards 1, 3, 4 and 6
15	$2 + 3 + 4 + 6$	15 on the outside of Cards 2, 3, 4 and 6
16	$2 + 3 + 5 + 6$	16 on the outside of Cards 2, 3, 5 and 6
17	$1 + 2 + 3 + 5 + 6$	17 on the outside of Cards 1, 2, 3, 5 and 6
18	$1 + 2 + 4 + 5 + 6$	18 on the outside of Cards 1, 2, 4, 5 and 6
19	$1 + 3 + 4 + 5 + 6$	19 on the outside of Cards 1, 3, 4, 5 and 6
20	$2 + 3 + 4 + 5 + 6$	20 on the outside of Cards 2, 3, 4, 5 and 6

Number on the outside of the 6 cards

Card 1 = 9 numbers Card 2 = 9 numbers Card 3 = 9 numbers
Card 4 = 9 numbers Card 5 = 9 numbers Card 6 = 9 numbers

I was able to express the numbers 7 to 20 in such a way that each card will have 9 numbers on it.
That way the cards will be balanced.