

**How to play:**

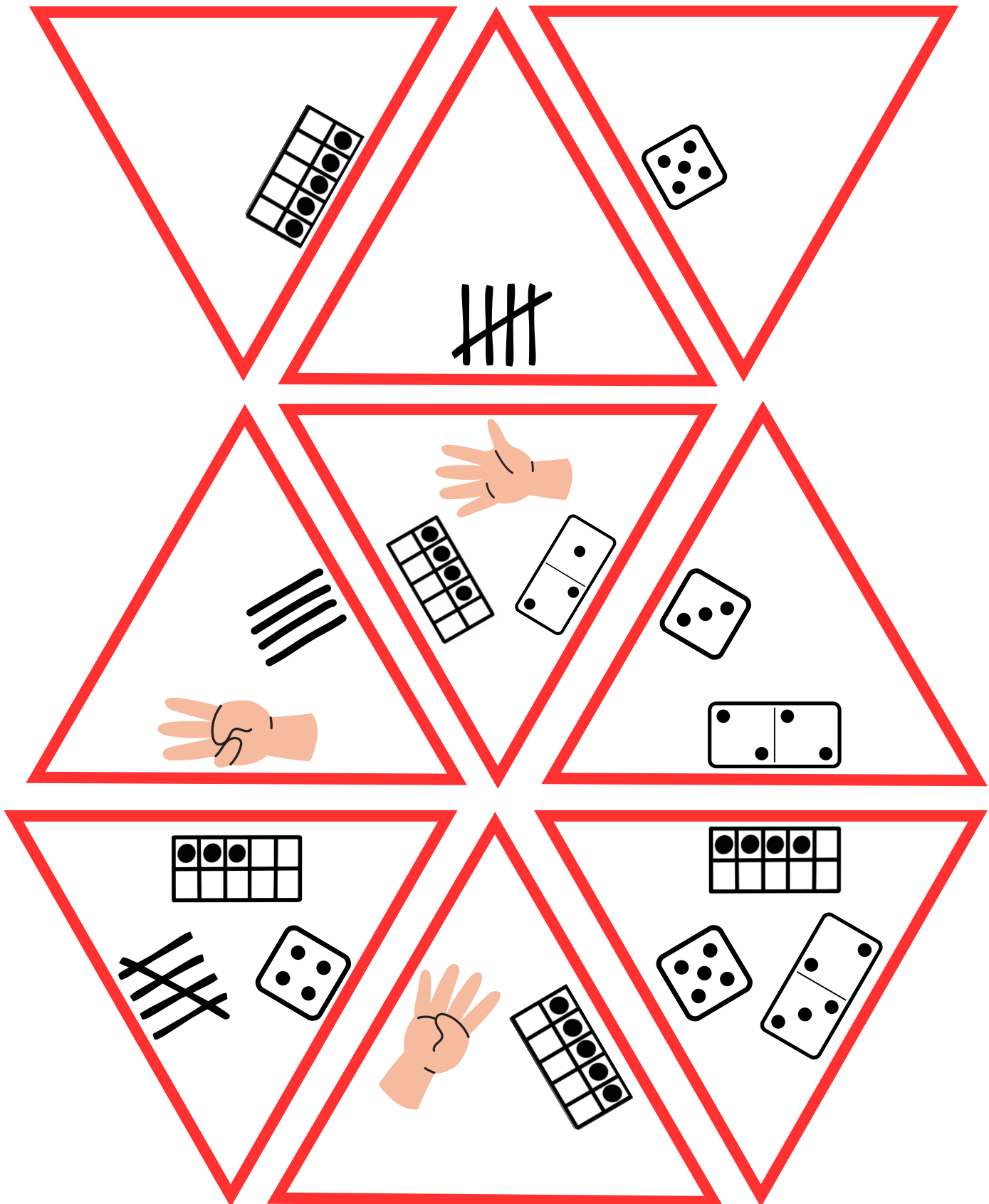
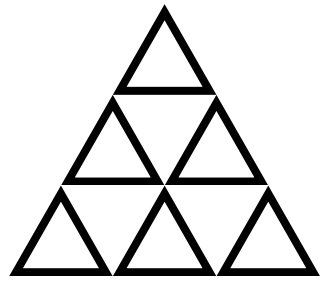
Cut out the triangle puzzles and mix up the pieces. Use the smaller triangles to make one large triangle. To complete the puzzle, match the edges of each triangle to a side on another triangle that has the same sum. Use the example shown above as a sample for students to look at while they work.

**Before you start:**

Complete the example puzzle with students watching. Ask them to share what they noticed. Ask them if there are any strategies they might want to use to help them do the puzzle. If students don't notice that the outsides of the larger triangle have no numbers, you might want to point it out to help them get started.

# Triangle puzzles

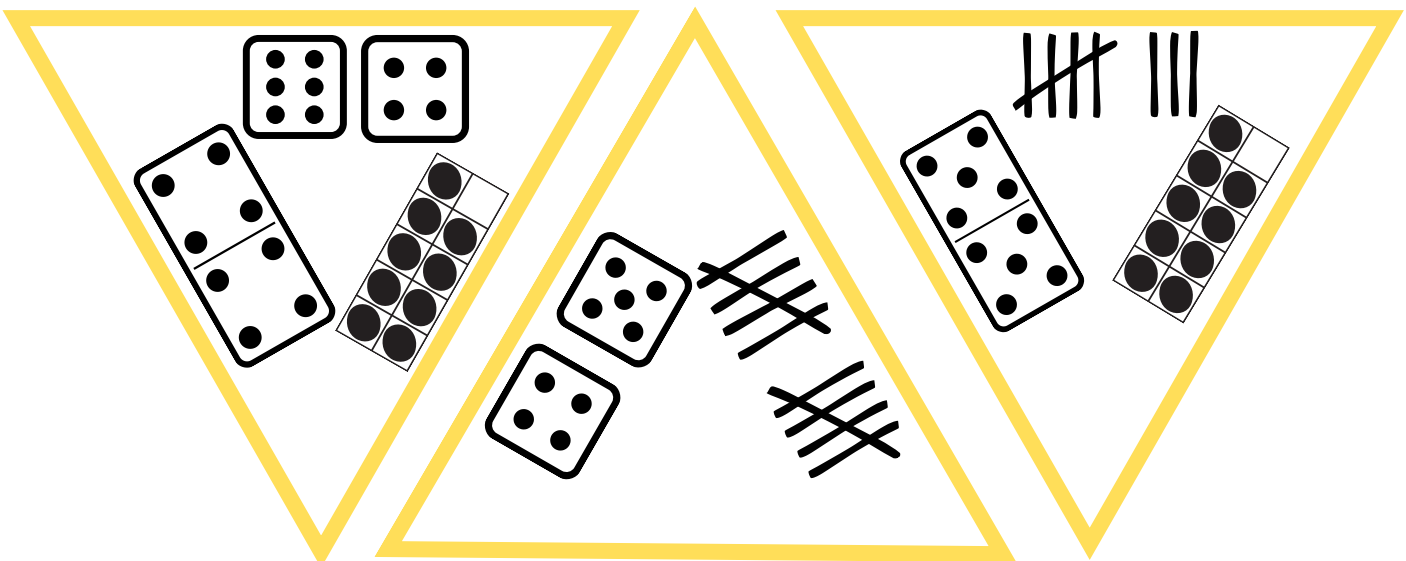
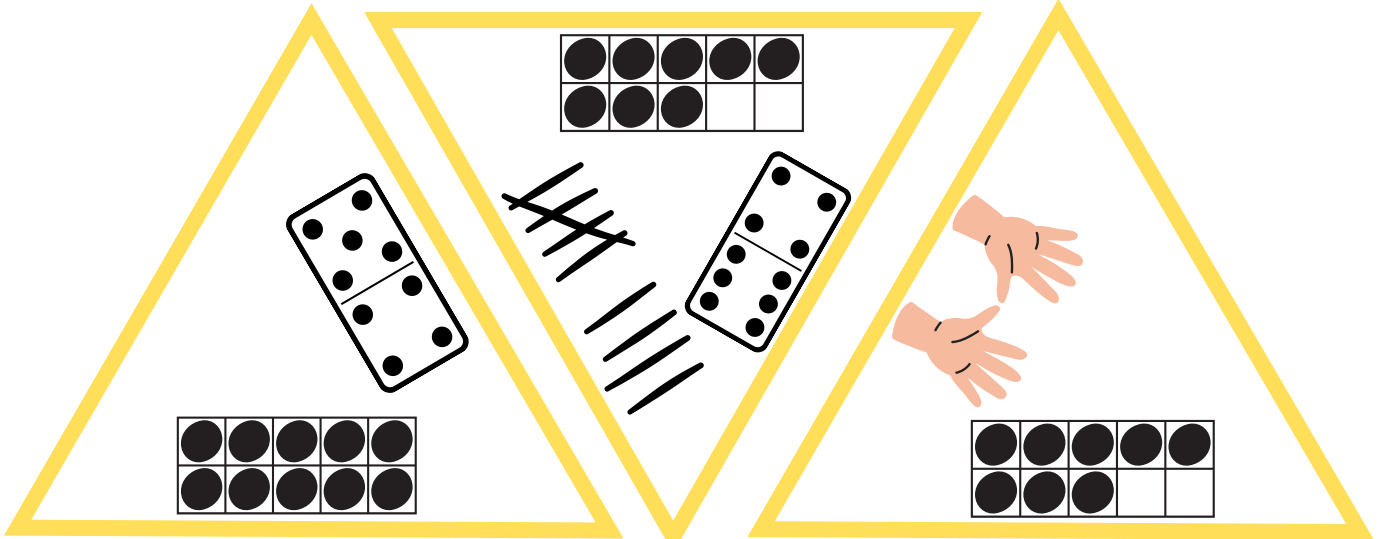
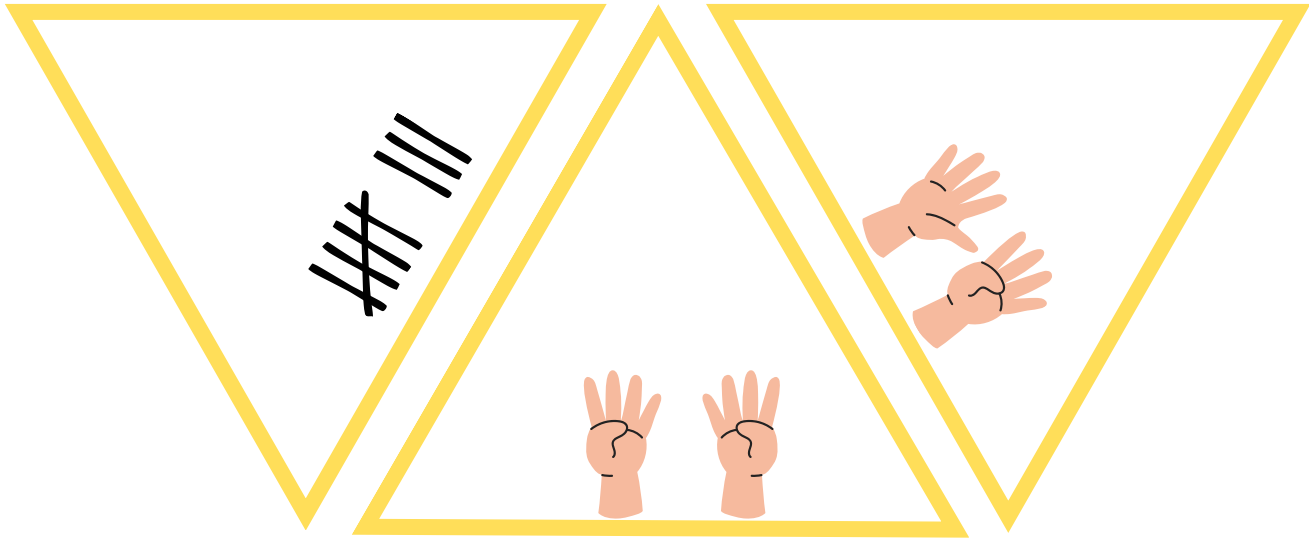
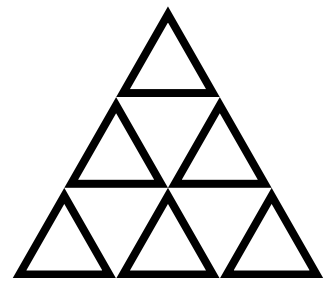
3, 4, 5





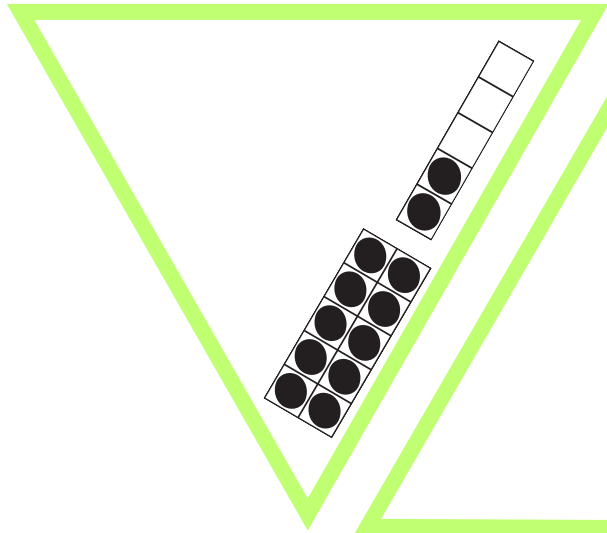
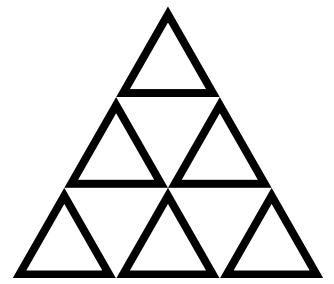
# Triangle puzzles

8, 9, 10

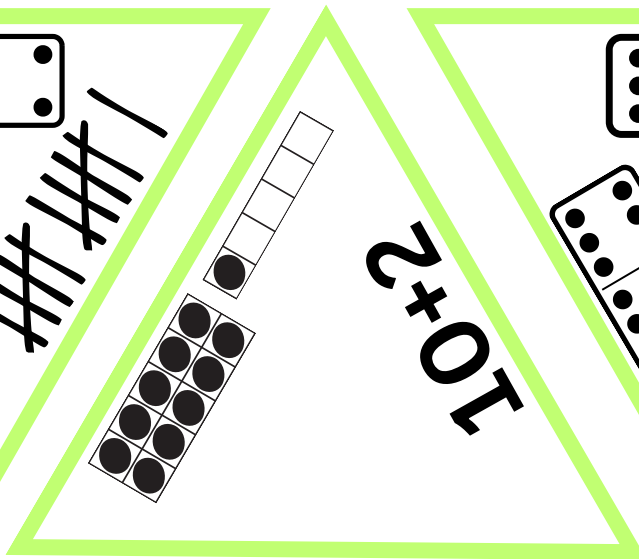
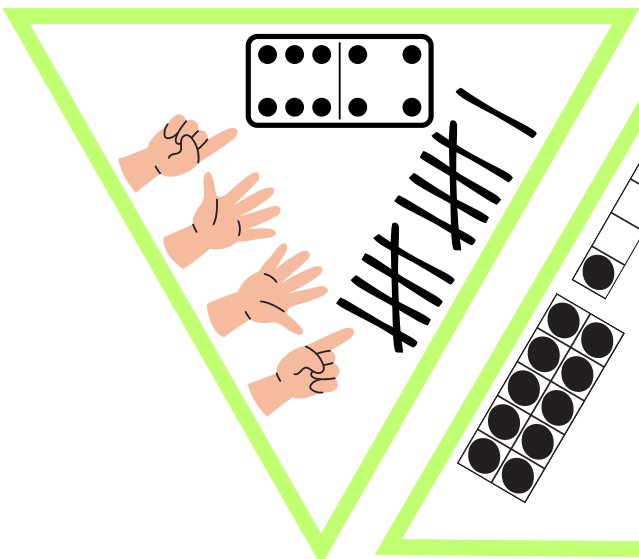
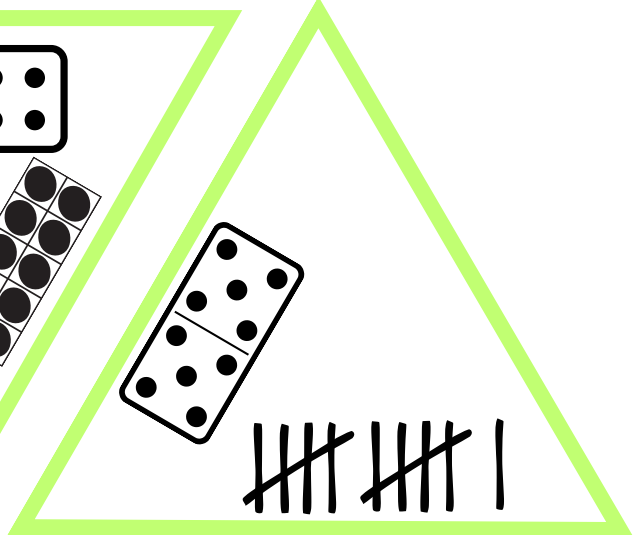
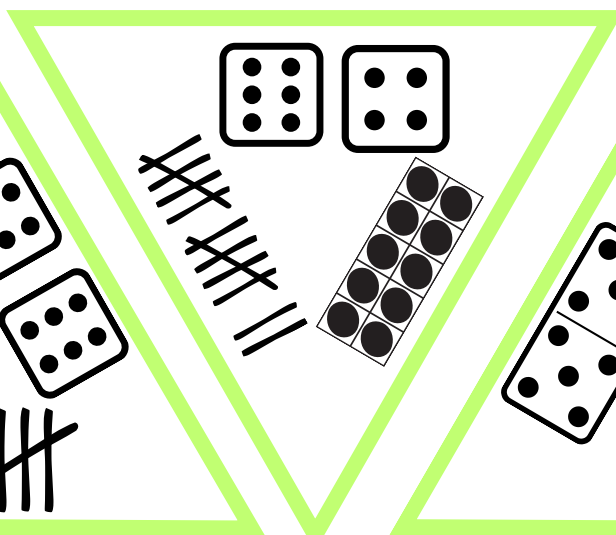
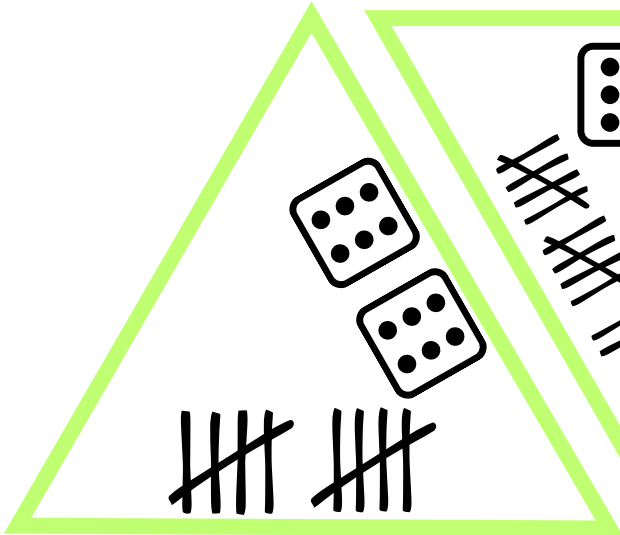
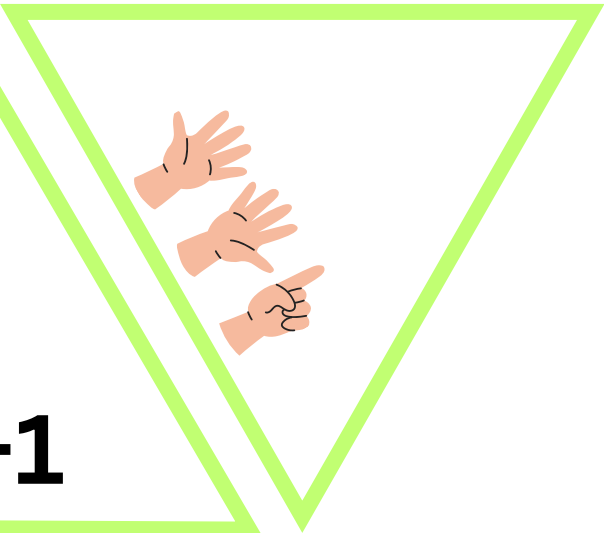


# Triangle puzzles

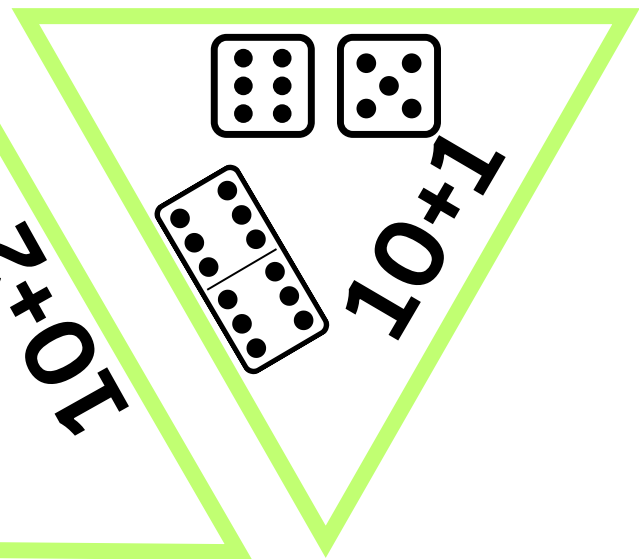
10, 11, 12



$9+1$



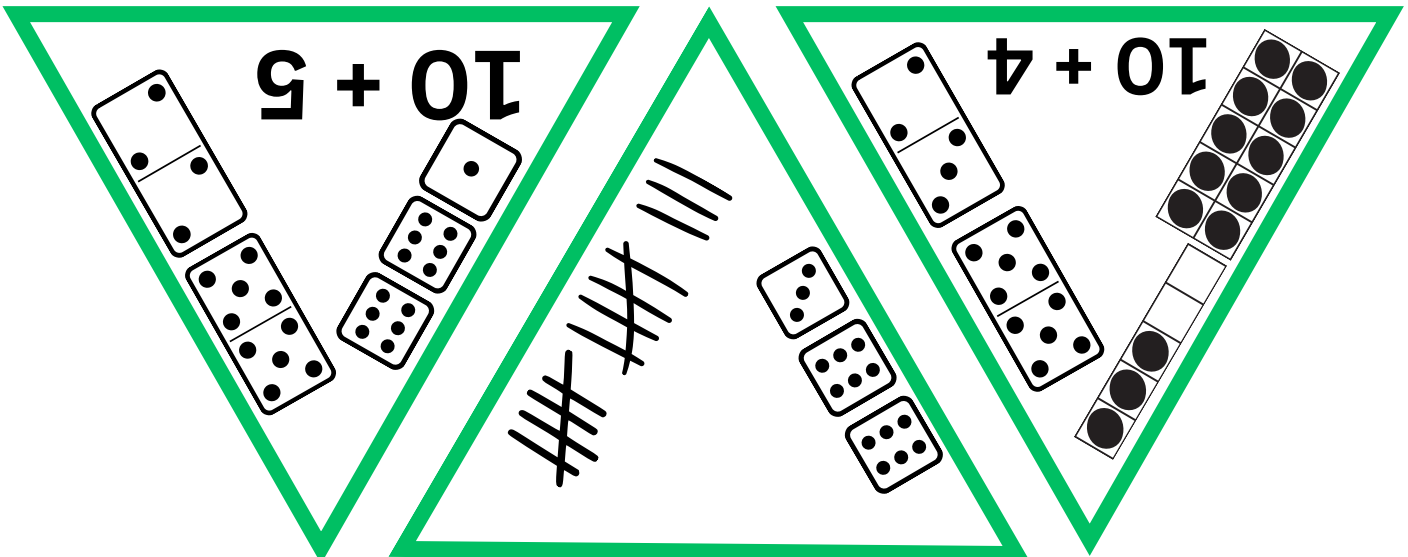
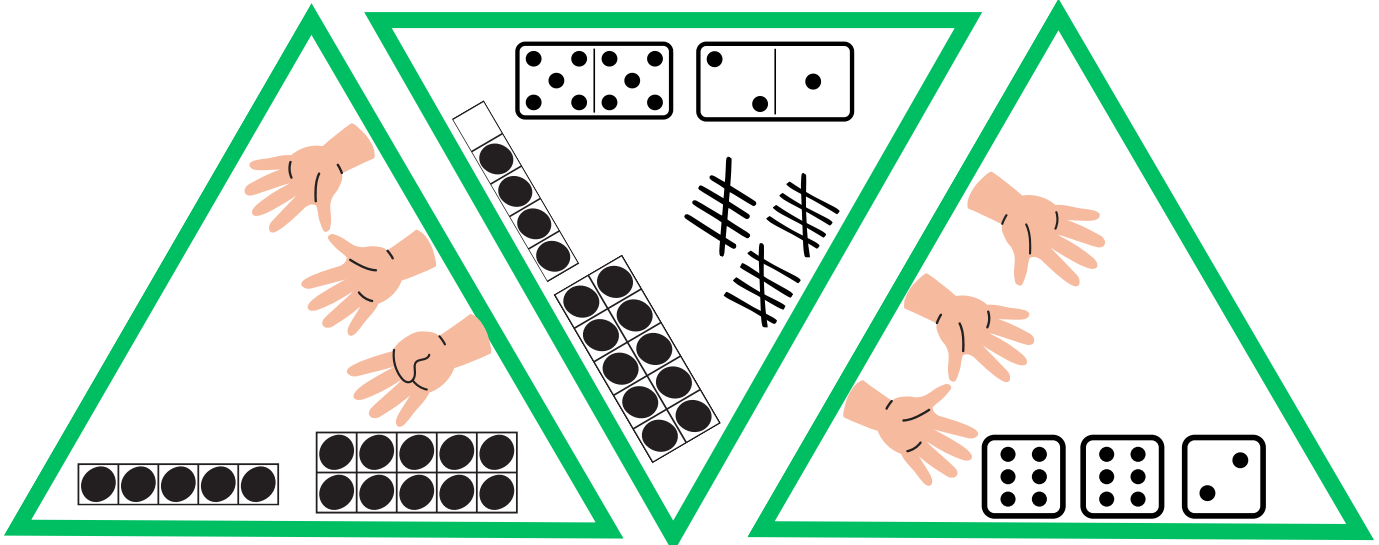
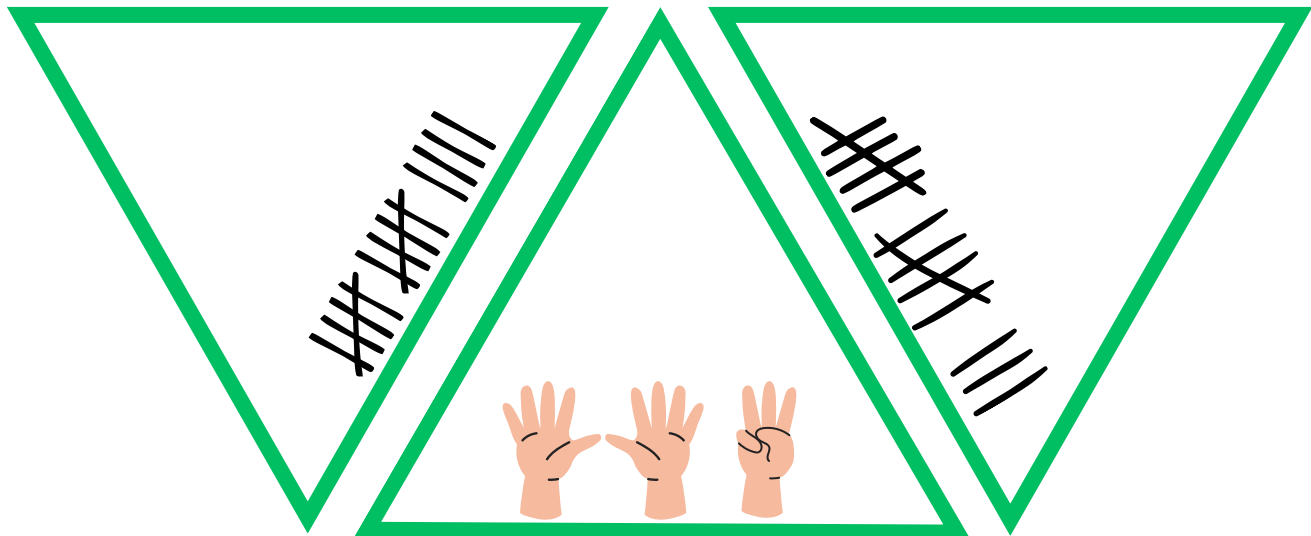
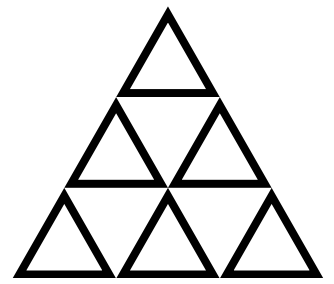
$10+2$



$10+1$

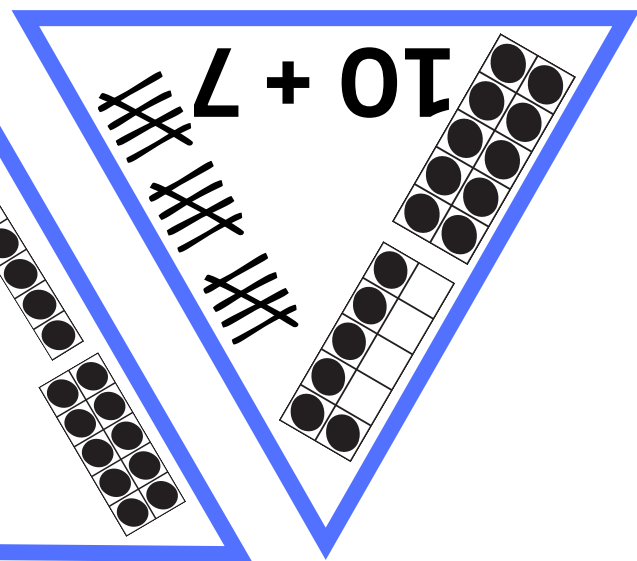
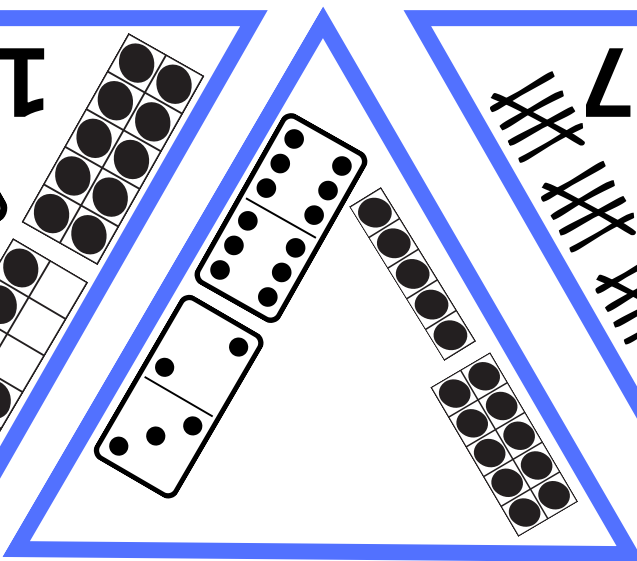
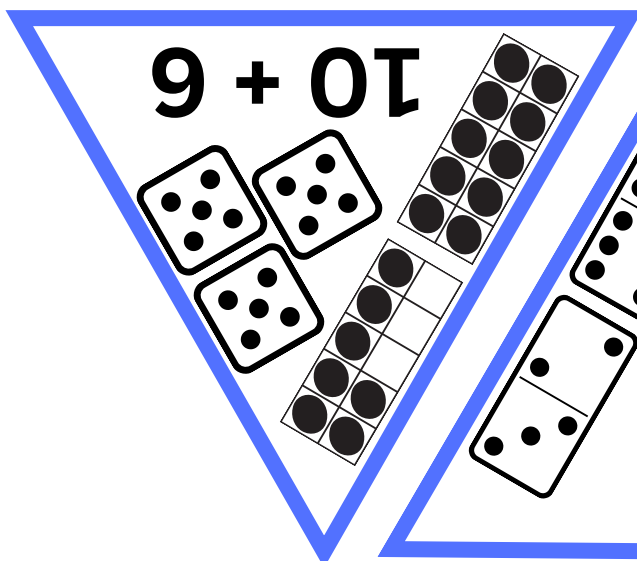
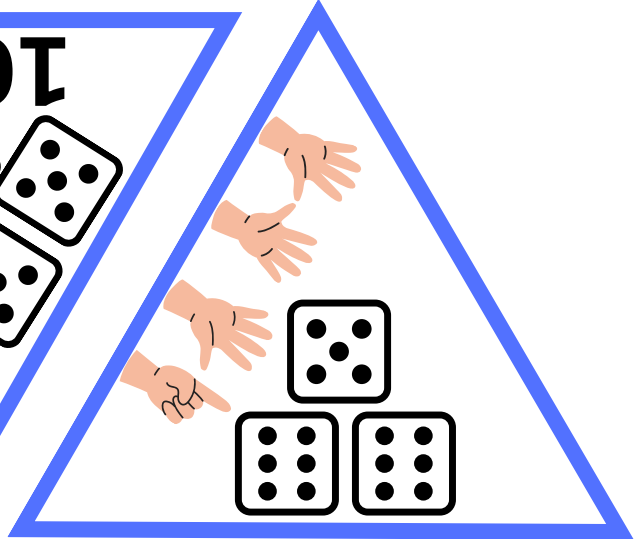
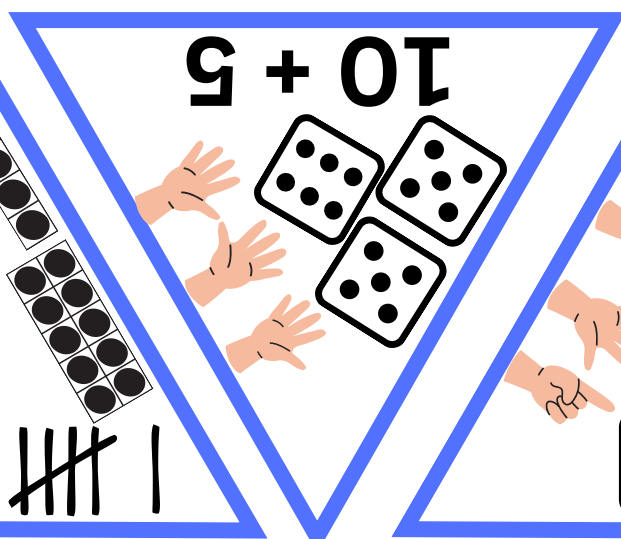
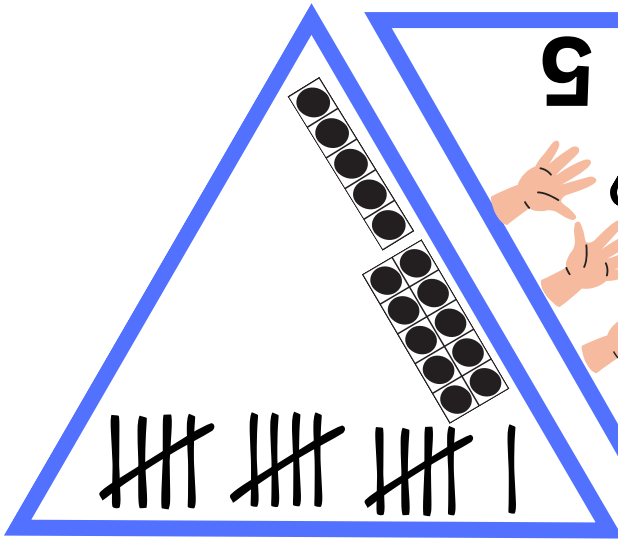
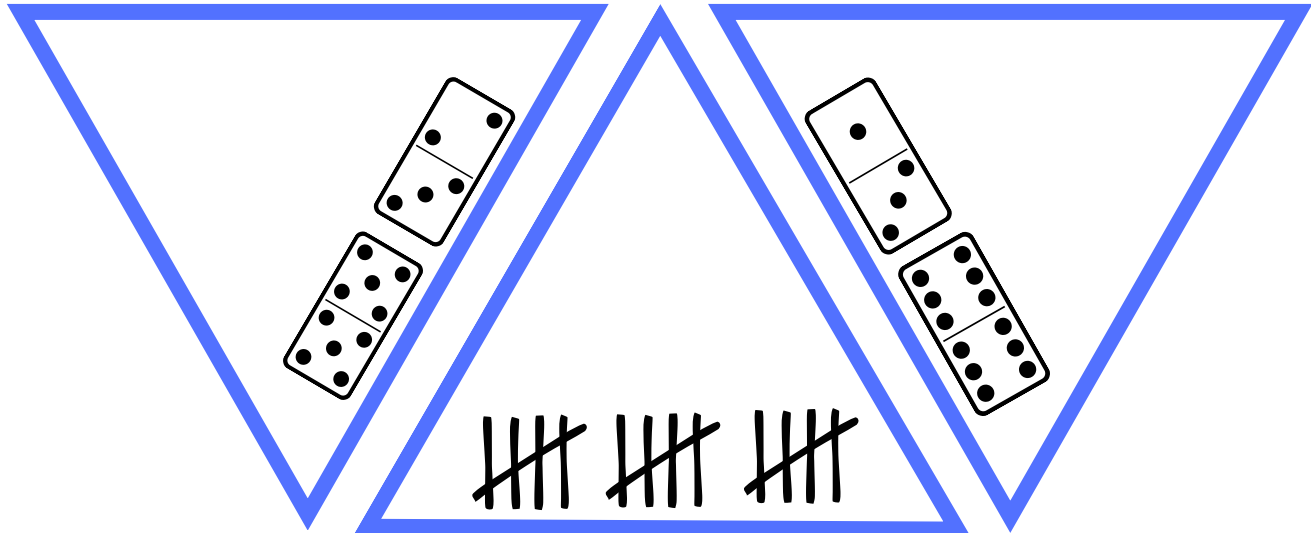
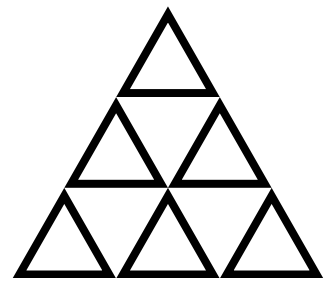
# Triangle puzzles

13, 14, 15



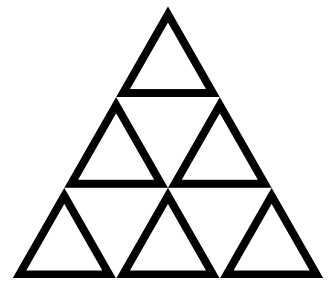
# Triangle puzzles

15, 16, 17



# Triangle puzzles

18, 19, 20



A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains four dice showing 1, 2, 3, and 4. The top-right small triangle contains four hands showing 1, 2, 3, and 4 fingers. The bottom-left small triangle is empty. The bottom-right small triangle contains three dice, each showing 6.

A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains two dice showing 5 and 6. The top-right small triangle contains two dice showing 5 and 6. The bottom-left small triangle contains four hands showing 1, 2, 3, and 4 fingers. The bottom-right small triangle is empty.

A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains 10 tally marks. The top-right small triangle contains the equation  $10 + 8$ . The bottom-left small triangle contains two dice showing 5 and 6. The bottom-right small triangle contains two dice showing 5 and 6.

A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains 10 tally marks. The top-right small triangle contains 10 tally marks. The bottom-left small triangle contains four dice, each showing 5. The bottom-right small triangle is empty.

A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains the equation  $10 + 9$ . The top-right small triangle contains two dice showing 5 and 6. The bottom-left small triangle contains two dice showing 5 and 6. The bottom-right small triangle is empty.

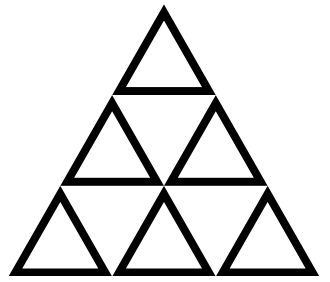
A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains two dice showing 5 and 6. The top-right small triangle contains two dice showing 5 and 6. The bottom-left small triangle contains two dice showing 5 and 6. The bottom-right small triangle contains the equation  $18 + 1$ .

A large purple triangle divided into four smaller purple triangles. The top-left small triangle contains two dice showing 5 and 6. The top-right small triangle contains two dice showing 5 and 6. The bottom-left small triangle contains two dice showing 5 and 6. The bottom-right small triangle contains the equation  $10 + 10$ .



# Triangle puzzles

15 - 20



$17 + 2$

$13 + 2$

$16 + 2$

$10 + 8$

$18 + 1$

$10 + 9$

$9 + 0$

$14 + 2$

$18 + 2$

$10 + 7$

$10 + 10$

$15 + 2$

$10 + 9$

$8 + 0$

$17 + 1$

$10 + 9$

$15 + 1$

$9 + 0$