**Construction Guide for Fraction Transparencies**

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| **Manipulative** | **Fraction Transparencies [Fraction Multipliers]** |
| **Materials** | Transparent Sheets (plastic or acetate sheets) |
| 52 Transparent plastic packets (~4x5 inches each) |
| Glue and scissors  |
| 1 Permanent black marker |
| Blue cellophane sheets  |
| Thirteen A4 Papers (for printing fraction cards) |
| **Details of 1 set** | 52 printed cards in yellow AND 52 transparent overlays in blue (whole, halves, thirds, fourths, fifths, sixths, eighths, ninths, tenths, twelfths) |

**Guidelines:**

1. **Prepare Yellow Fraction Cards:**

Take color printouts of the yellow fraction cards (see design below) on A4 paper.

Cut out each card along the thick black border (each card should be 4x5 inches). There should be a total of 52 cards.

Insert each yellow card into a plastic packet of the same size.

1. **Prepare Transparent Blue Overlays:**
2. Cut Transparent Sheets:

Cut the transparent sheets to create 52 cards each 4x5 inches (same size as the yellow fraction cards).

1. Draw the partitions:

Use a permanent marker to trace the black lines shown on each yellow fraction card.

1. Blue Fraction Parts:

From the blue cellophane sheet, cut out segments to match the size of the yellow portions on each yellow fraction card.

1. Paste Blue Parts:

Paste these blue cellophane cutouts on the corresponding transparent sheets. Ensure these parts are accurately positioned to exactly match each yellow card.

In the end, you should have 52 pairs of yellow and blue cards. The cards in each pair should be identical, with one showing fractions shaded in yellow and one in blue.



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