

Fraction-Tile Arrangement

Classroom-ready printable pack · Grades K–8

Pack contents

printable fraction strips, unit mats, comparison cards, and blanks Two student sets are included.

Teacher directions

1. Prepare the teacher-supplied manipulatives named on the activity page, or use the included paper alternative where provided.
2. Give partners identical support materials; keep the model, rule, or sequence hidden from the Builder.
3. Run the barrier round using the included tokens, cards, mat, or recording sheet.
4. Compare, apply the reference check, revise one unclear instruction, and switch roles.

Before class

- Print at 100% on US Letter paper. Use cardstock or laminate for reuse.
- Cut on the thick solid borders. Keep Set A and Set B separate.
- Give challenge/model cards only to the Describer.
- Use a folder, book, or tabletop barrier so partners cannot see each other's work.

Accessibility and accommodations

Use the paper alternative, reduce the set, enlarge cards, read labels aloud, and permit repeated directions. Cards combine words, symbols, and patterns rather than relying on color.

Storage-envelope labels

Fraction-Tile Arrangement

Set A — Describer

Count pieces before storing.

Fraction-Tile Arrangement

Set B — Builder

Count pieces before storing.

Fraction-Tile Arrangement

Challenge / model cards

Count pieces before storing.

Fraction-Tile Arrangement

Teacher reference

Count pieces before storing.

Student language supports

Position: above · below · beside · between · near · far · left · right · clockwise**Clarify:** “Please repeat...” · “Is ___ beside ___?” · “What should I place next?”**Compare:** same · different · rotate · move · replace · sequence

Movable pieces

Set A

Cut on the solid borders. This set is identical to the partner set.



Movable pieces

Set B

Cut on the solid borders. This set is identical to the partner set.



Fraction-Tile Arrangement support mat

Cut the page in half. Both partner mats are identical.

Set A — Fraction-Tile Arrangement support mat

setup • sequence / arrangement • check • revision notes

top / far

center

bottom / near

Set B — Fraction-Tile Arrangement support mat

setup • sequence / arrangement • check • revision notes

top / far

center

bottom / near

Describer-only challenge cards

Keep these cards hidden from the Builder.

Challenge 1

make one whole

Challenge 2

show one half two ways

Challenge 3

compare three-fourths and two-thirds

Challenge 4

build two equivalent sums

Fraction-Tile Arrangement reference

Teacher-supplied materials and reference

All strips represent the same whole length. Compare fractions only after aligning equal wholes.

This is an optional convenience pack. Ordinary manipulatives remain teacher-supplied; inspect physical materials and adapt difficulty, reading load, movement, and sensory demands for the learners present.

Quality check after a round

- Can each student identify pieces by shape or label without relying on color?
- Do both models match in pieces, order, orientation, and relative position?
- Which direction was most precise? Which should be revised?