

MANIPULATIVES AND CALCULATORS

Note: This is not an exhaustive list of all possible manipulatives and calculator devices.

CALCULATORS AND CALCULATOR LIKE DEVICES

These are not manipulatives and may be given to the students taking the two calculator allowed parts of the Kansas Mathematics Assessment, but may not be used on the calculator not allowed part.)

1. Calculators, including graphing calculators (Calculators that include tested definitions or functions may not be used. Calculators must have memory storage cleared before and after each part of the Kansas Mathematics Assessment is administered.
2. Multiplication, square, square root, or other fact tables
3. Slide Rule
4. Napier's Rods (or bones)

ALLOWED MATHEMATICS MANIPULATIVES

These are allowed manipulatives and may be used on all parts of the Kansas Mathematics Assessments.

1. Abacus
2. Algebra tiles
3. "Angle-legs" (snap together colored sticks)
4. Balance scales from hands-on-equations (and similar)
5. Base 10 (ten) blocks
6. Blank squares (used to write numbers or order numbers)
7. Blank transparency sheets
8. Calendars
9. Chips, two-color counters, two-sided counters
10. Clock or clock face (with numbers 1-12, also marked at 5, 10, 15, etc., also "Judy" clocks)
11. Color tiles (squares)
12. Colored markers
13. Containers - pint, quart, gallon containers – may have the capacity for each container marked on it, but they may not be marked in sub-units in any way such as nesting, labeling or color-coding. They may not be coded in any way for conversions.
14. Compass
15. Coordinate grids with x and y and with or without numbers
16. CUBES: multilink, connecting, color, wooden, unifix, multilink cubes
17. Cuisenaire rods
18. Deck of playing cards
19. Geoboards

20. Geometric shapes on a sheet of paper (without any indication as to their name)
21. Geometric solids (without any indication as to their name)
22. Graph paper
23. Hands on equations
24. Hundreds chart - a chart with numbers 1-100 in it. The chart cannot go beyond 100. The charts cannot be color coded or otherwise marked for use as a multiplication or fact table.
25. Integer number line (also with touch points)
26. Lattice paper
27. Money (may include replicas of money, but without any indication of the value beyond that found on the real monetary unit.)
28. Number cubes
29. Pattern blocks
30. Plane figures (without any indication as to their name)
31. Protractors
32. Rulers, meter sticks (with whole units labeled, but not fractional units)
33. Scissors
34. Snap blocks
35. Spinners
36. Time ruler
37. "Touch math" numbers
38. Transparent mirror or mira

NOT ALLOWED MATHEMATICS MANIPULATIVES

These manipulatives are not allowed on any part of the Kansas Mathematics Assessments.

1. Fraction tiles, fraction strips, fraction pieces, rainbow fraction tiles, fraction bars, fraction fringe, frax stax, tower of bars, circles cut into fractions – If these objects contain labels indicating the fractions they are not allowed, without labels they are allowed.
2. GCF and LCM Tables
3. Kim Sutton number line (marked for fractions and multiplies)
4. Measuring cups and spoons with more than one fraction marked on them
5. Metric conversion chart with information on metric system
6. "Mr. Gallon"
7. Number lines that include fractions or decimals, or that have multiples indicated
8. Percent circle (Every Day Math)
9. Place value card pockets
10. Place value charts
11. Place value flip charts
12. "Power Polygons" (They have shapes identified by letters)

13. Prime number chart
14. "Rounding tool"
15. Rulers with color-coded fractions – e.g. halves are red, quarters are green, etc.
16. Scales with marks for ounces or pounds
17. Thousands or ten thousands charts (any greater than 100's chart)