# 6th Grade Math Learning Targets

## Prime Time

1. I can find all the factors of a number. (1.1)
2. I can analyze numbers by characteristics of their factors and use this information to solve problems. (1.2)
3. I can distinguish between factors and multiples. (1.3)
4. I can use one factor of a given number to find another factor of the given number. (1.3)
5. I can find all factors of a given number. (1.4)
6. I can use common multiples to solve problems. (2.1 - 2.2)
7. I can use common factors to solve problems. (2.3)
8. I can write a number as a product of factors in more than one way. (3.1)
9. I can find the prime factorization of a number. (3.2)
10. I can use prime factorization to find other factors and multiples of a number. (3.2)
11. I can use prime factorization to find GCF and LCM for two numbers. (3.3)
12. I can use characteristics of numbers to solve real-world problems. (3.4)
13. I can use even and odd numbers to make conjectures about their sums and products. (4.1)
14. I can use the distributive property to create equivalent expressions. (4.2)
15. I can apply the order of operations to number sentences and real-world problems. (4.3 - 4.4)

## Comparing Bits & Pieces

16. I can evaluate a math claim as true or false. (1.1)
17. I can evaluate a “for every” statement and rewrite it as a ratio. (1.2)
18. I can use fraction strips to solve problems with equivalent fractions. (1.3)
19. I can use fraction strips to order fractions and find the distance between two points. (1.3)
20. I can use fraction strips to analyze real data. (1.4)
21. I can compare fractions and ratios, and determine when they are equivalent. (1.5)
22. I can determine equal shares and explain them using a unit rate. (2.1)
23. I can use ratios and fractions to describe situations with unequal shares. (2.2)
24. I can use a rate table to find equivalent ratios. (2.3)
25. I can locate numbers that are less than 0 and greater than 1 on the number line. (3.1)
26. I can use benchmark fractions to compare and order fractions. (3.2)
27. I can describe the relationship between fractional and decimal relationships. (3.3)
28. I can use what I know about fractions to compare and estimate decimal values. (3.4)
29. I can use division to find decimal equivalents of fractions. (3.5)
30. I can use percent bars to make sense of ratios and rate comparisons. (4.1)
31. I can use various strategies to find percents. (4.2)
32. I can apply my understanding of ratios and percents in a real-world situation. (4.3)
33. I can use different strategies for estimating the sums of fractions. (Let’s Be Rational, 1.1)
34. I can use estimation strategies to solve real-world problems. (1.2)
35. I can use a strategy/strategies to add and subtract fractions. (1.3)
36. I can use a strategy/strategies to add and subtract mixed numbers. (1.4)
37. I can use an area model to find a part of a part. (2.1)
38. I can use a strategy/strategies to multiply fractions and mixed numbers. (2.2)
39. I can multiply rational numbers. (2.3)
40. I can describe what it means and use a strategy/strategies to divide fractions. (3.1)
41. I can describe what it means and use a strategy/strategies to divide a whole number by a fraction. (3.2)
42. I can describe what it means and use a strategy/strategies to divide a fraction by a whole number. (3.3)
43. I can develop and use an efficient method for division problems involving fractions and mixed numbers. (3.4)
44. I can use fact families to solve addition and subtraction equations involving fractions. (4.1)
45. I can use fact families to solve multiplication and division equations involving fractions. (4.2)
46. I can interpret real-world situations and determine which operation is needed to solve a problem. (4.3)

## Covering & Surrounding

47. I can describe the formulas for finding the area and perimeter of rectangles & explain why they work. (1.1)
48. I can investigate how perimeters and shapes of rectangles vary when they have the same area. (1.2)
49. I can investigate how perimeters and shapes of rectangles vary when they have the same perimeter. (1.3)
50. I can strategize methods for finding the area and perimeter of triangles. (2.1)
51. I can develop a formula for finding the area of a triangle. (2.1)
52. I can determine how the orientation of a triangle affects the base, height, and area. (2.2)
53. I can analyze the relationship between triangles that have the same base and height. (2.3)
54. I can design triangles with given conditions and analyze their shape, area, and perimeter. (2.4)
55. I can strategize methods for finding the area and perimeter of parallelograms. (3.1)
56. I can determine how the orientation of a parallelogram affects the base, height, and area. (3.2)
57. I can design parallelograms with given conditions and analyze their shape, area, and perimeter. (3.3)
58. I can apply the concept of triangle/rectangle area to find the area of a polygon. (3.4)
59. I can develop strategies for finding the surface area of rectangular prisms. (4.1)
60. I can develop strategies for finding the volume of a rectangular prism. (4.2)
61. I can develop strategies for finding the surface area of prisms and pyramids. (4.3)

### Decimal Ops

62. I can apply the appropriate operation to solve a real-world problem. (1.1)
63. I can use estimation strategies with decimal computations. (1.2)
64. I can solve problems with decimal unit rates. (1.3)
65. I can explain the relationship between place value and decimal addition. (2.1)
66. I can explain how to subtract one decimal from another. (2.2)
67. I can describe the inverse relationship between decimal addition and subtraction. (2.3)
68. I can determine how to multiply two decimal numbers. (3.1)
69. I can use an algorithm to find any decimal product. (3.1)
70. I can develop strategies for dividing decimals. (3.3)
71. I can use the long division method to divide decimals. (3.4)
72. I can express remainders using decimals. (3.5)
73. I can use percents to calculate taxes and solve problems involving tax rates. (4.1)
74. I can use percents to calculate service charges and solve problems involving sales tax and tip. (4.2)
75. I can use percents to calculate discounts and solve problems involving percent change. (4.3)
76. I can apply the appropriate operation to solve a real-world problem. (4.4)

### Variables and Patterns

77. I can represent and interpret data using tables and graphs. (1.1)
78. I can describe patterns of change in data represented in tables and graphs. (1.2)
79. I can represent patterns of change using different representations. (1.3)
80. I can analyze a graph to calculate average speed. (1.4)
81. I can analyze and compare the relationship between variables. (2.1)
82. I can describe nonlinear patterns of change represented by tables and graphs. (2.2)
83. I can use all four quadrants of a graph to analyze the relationship between two variables. (2.3)
84. I can use an algorithm to find any decimal product. (2.4)
85. I can express mathematical relationships using an equation. (3.1)
86. I can describe how the median and mean are affected by data in a distribution. (2.3)
87. I can write algebraic expressions for relationships involving two operations. (3.3)
88. I can apply order of operations to simplify algebraic expressions. (3.4)
89. I can write algebraic expressions to model real-world situations. (4.1)
90. I can use properties of operations to write equivalent expressions. (4.3)
91. I can solve one-step equations. (4.4)
92. I can solve and graph inequalities. (4.5)

### Data About Us

93. I can represent and compare data distributions using tables and graphs. (1.1)
94. I can calculate a measure of center (mode) and spread (range). (1.2)
95. I can describe and compare data distributions using range, mode, and median. (1.3)
96. I can find the mean of a data distribution using tables and graphs. (2.1)
97. I can interpret, compute, and use the mean for given data distributions. (2.2)
98. I can describe how the median and mean are affected by data in a distribution. (2.3)
99. I can distinguish between types of data and determine which statistics best represent the data. (2.4)
100. I can calculate and interpret the interquartile range of a data distribution. (3.1)
101. I can analyze the IQR to make comparisons among distributions. (3.2)
102. I can describe the variation in a data distribution using the mean absolute deviation. (3.3)
103. I can construct a histogram and use it to analyze data. (4.1)
104. I can construct a box-and-whisker plot and use it to analyze data. (4.2)
105. I can compare and contrast data displayed in various representations. (4.3)