**MCAS Grade 4**

**Approved Supplemental Mathematics Reference Sheet**

(For use by students on the MCAS Mathematics test who have this accommodation)

|  |  |
| --- | --- |
| **General problem-solving strategies** | **Symbols** |
| * Reread question for clarity
* Circle or highlight key terms
* Calculate and solve
* Circle my answer
* See if my answer makes sense
 | * $>$ is greater than
* $<$ is less than
* $=$ is equal to
 |
| **Place Value** | **Divisibility Rules** |
|

|  |  |  |
| --- | --- | --- |
| Whole Numbers |  | Decimals |
| Ht | Tt | Th | H | T | O | . | T | H | Th |
|  |  |  |  |  |  |  |  |  |  |

 |

|  |  |
| --- | --- |
| 2 | If the last digit is even |
| 3 | If the sum of the digits can be divided by 3 |
| 5 | If the last digit is 0 or 5 |
| 6 | If the number is divisible by both 2 and 3 |
| 9 | If the sum of the digits can be divided by 9 |
| 10 | If the last digit is 0 |

 |
| **Number Line** |
| **blank number line** |
| **Number Table** | **Formulas** |
|

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 |
| 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 |
| 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 |
| 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 |

 | Area ($A$) of Rectangle... $A=l ×w$ ($l=length;w=width$)Area ($A$) Model

|  |  |
| --- | --- |
|  $l$ |  |
| *A* | $$w$$ |

Perimeter ($P$)$P=distance around$  |
| **Devices** | **Fractions** |
| E+X+P+A+N+D+E+D+F+O+R+M | Add or Subtract – need like denominators |