



SARUM HALL SCHOOL

MATHS CALCULATION POLICY (Year 2)

Date:	July 2025
Next Review Due:	September 2026
Reviewed by:	Chen Lee

This policy has been largely adapted from the White Rose Maths Calculation Policy with further material added.
It is a working document and will be revised and amended as necessary.

ADDITION

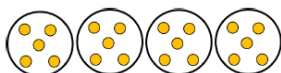

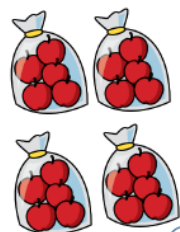
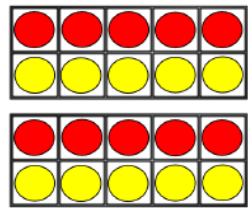


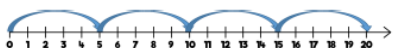
Skill	Representations and Models				Vocabulary
Add 1 and 2-digit numbers to 20	Example: $8 + 7 = 15$				<ul style="list-style-type: none"> Sort Represent Multiples Partitioning Ones Tens Place value Compare Numbers to 100 Hundreds Count in steps Count in multiples Estimate More Addition/add Equals Facts Problems Missing number Number bonds 2-digit number 3-digit number Commutative
	Part-whole model 	Bar Model 	Number shapes 	Ten frames (within 20) 	
Add three 1-digit numbers	Example: $7 + 6 + 3 = 16$				
	Part-whole model 	Bar Model 	Number shapes 	Ten frames (within 20) 	

Add 1-digit and 2-digit numbers to 100	<div>Example: $38 + 5 = 43$</div>																																																																																																						
	<div>Part-whole model</div>	<div>Bar Model</div>	<div>Number lines (labelled)</div>																																																																																																				
	<div>Number links (blank)</div>	<div>Straws</div>	<div>Hundred square</div> <table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr><tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr><tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr><tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr><tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr><tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr><tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr><tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr></table>	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	100
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Add two 2-digit numbers to 100	<div>Example: $38 + 23 = 61$</div>																																																																																																						
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SUBTRACTION

Skill	Representations and Models				Vocabulary
Subtract 1 and 2-digit numbers to 20	Example: $14 - 6 = 8$				<ul style="list-style-type: none">• Sort• Represent• Partitioning• Ones• Tens• Place value• Numbers to 100• Hundreds• Estimate• Less• Subtraction/ subtract• Take away• Minus• Difference• Equals• Facts• Problems• Missing number• Inverse• Number bonds• 2-digit number• 3-digit number
	Part-whole model	Bar Model	Number shapes	Ten frames (within 20)	
Number tracks	Number lines (labelled)		Straws		
Subtract 1 and 2-digit numbers to 100	Example: $65 - 28 = 37$				
	Part-whole model	Bar Model	Number lines (blank)		
Straws	Base 10/Dienes		Place value counters		

MULTIPLICATION

Skill	Representations and Models			Vocabulary
Solve 1-step problems using multiplication	<p>Example: One bag holds 5 apples. How many apples do 4 bags hold?</p>			<ul style="list-style-type: none"> Sort Represent Multiples Partitioning Ones Tens Place value Numbers to 100 Hundreds Count in steps Count in multiples Estimate Multiplication Multiply Arrays Row Column Count in... Lots of... Groups of... Times Repeated addition Equals Facts Problems Missing number 2-digit number 3-digit number
	<p>Bar model</p>  $5 + 5 + 5 + 5 = 20$ $4 \times 5 = 20$ $5 \times 4 = 20$	<p>Number shapes</p> 	<p>Counters</p> 	<p>Ten frames</p> 
	<p>Arrays</p>  $5 + 5 + 5 + 5 = 20$ $4 \times 5 = 20$ $5 \times 4 = 20$	<p>Bead strings</p> 	<p>Number lines</p> 	

DIVISION

Skill	Representations and Models				Vocabulary
Solve one-step problems with division (sharing)	<div>Example: <div>There are 20 apples altogether. They are shared equally between 5 bags. How many apples are in each bag?</div></div>				<ul style="list-style-type: none">SortRepresentMultiplesPartitioningOnesTensPlace valueNumbers to 100HundredsEstimateDivisionDivideArraysRowColumnCount in...Lots of...Groups of...ShareEqualsFactsProblemsMissing numberInverse2-digit number3-digit number
	<div>Bar model</div> <div>20</div> <div><div><div>?</div><div>?</div><div>?</div><div>?</div><div>?</div></div></div>	<div>Real life objects</div> <div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div></div>			
	<div>Arrays</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div> <div>$20 \div 5 = 4$</div>	<div>Counters</div> <div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div> <div>$20 \div 5 = 4$</div>			
Solve one-step problems with division (grouping)	<div>Example: <div>There are 20 apples altogether. They are put in bags of 5. How many bags are there?</div></div>				
	<div>Bar model</div> <div><div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div></div></div></div> <div>$20 \div 5 = 4$</div>	<div>Number shapes</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>	<div>Counters</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>	<div>Ten frames</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>	
	<div>Arrays</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div> <div>$20 \div 5 = 4$</div>	<div>Bead strings</div> <div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>		<div>Number lines</div> <div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div>	