

Autumn 2

Your child's KIRF this half term is: to recognise and use square and cube numbers and their notation.

SQUARE NUMBERS		CUBE NUMBERS
$1^2 = 1 \times 1 = 1$	$7^2 = 7 \times 7 = 49$	$1^3 = 1 \times 1 \times 1 = 1$
$2^2 = 2 \times 2 = 4$	$8^2 = 8 \times 8 = 64$	$2^3 = 2 \times 2 \times 2 = 8$
$3^2 = 3 \times 3 = 9$	$9^2 = 9 \times 9 = 81$	$3^3 = 3 \times 3 \times 3 = 27$
$4^2 = 4 \times 4 = 16$	$10^2 = 10 \times 10 = 100$	$4^3 = 4 \times 4 \times 4 = 64$
$5^2 = 5 \times 5 = 25$	$11^2 = 11 \times 11 = 121$	$5^3 = 5 \times 5 \times 5 = 125$
$6^2 = 6 \times 6 = 36$	$12^2 = 12 \times 12 = 144$	$6^3 = 6 \times 6 \times 6 = 216$

In addition, you can help by practising the following:

Round 6 digit numbers to the nearest 10, 100, 1000, 10,000 and 100,000.	<table border="1"> <thead> <tr> <th>6 digit number</th> <th>Rounded to the nearest 10</th> <th>Rounded to the nearest 100</th> <th>Rounded to the nearest 1,000</th> <th>Rounded to the nearest 10,000</th> <th>Rounded to the nearest 100,000</th> </tr> </thead> <tbody> <tr> <td>234,219</td> <td>234,220</td> <td>234,200</td> <td>234,000</td> <td>230,000</td> <td>200,000</td> </tr> <tr> <td>982,092</td> <td>982,090</td> <td>982,100</td> <td>982,000</td> <td>980,000</td> <td>1,000,000</td> </tr> </tbody> </table>	6 digit number	Rounded to the nearest 10	Rounded to the nearest 100	Rounded to the nearest 1,000	Rounded to the nearest 10,000	Rounded to the nearest 100,000	234,219	234,220	234,200	234,000	230,000	200,000	982,092	982,090	982,100	982,000	980,000	1,000,000																																																																																		
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Add and subtract 2 numbers with different decimal places	$3.547 + 49.04$ <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td></td><td></td><td>3</td><td>.</td><td>5</td><td>4</td><td>7</td></tr> <tr><td>+</td><td>4</td><td>9</td><td>.</td><td>0</td><td>4</td><td></td></tr> <tr><td></td><td></td><td></td><td>.</td><td></td><td></td><td></td></tr> </table> $13.5 - 9.04$ <table border="1" style="display: inline-table;"> <tr><td></td><td>1</td><td>3</td><td>.</td><td>5</td><td></td><td></td></tr> <tr><td>-</td><td></td><td>9</td><td>.</td><td>0</td><td>4</td><td></td></tr> <tr><td></td><td></td><td></td><td>.</td><td></td><td></td><td></td></tr> </table>			3	.	5	4	7	+	4	9	.	0	4					.					1	3	.	5			-		9	.	0	4					.																																																													
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Add and subtract fractions where one denominator is a multiple of the other	$\frac{7}{12} - \frac{1}{12} = \frac{6}{12} = \frac{1}{2}$ $\frac{1}{9} + \frac{4}{9} = \frac{5}{9}$																																																																																																				
Identify prime numbers up to 100.	Convert between g, kg and tonnes																																																																																																				
<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	<p> $1\text{kg} = 1000\text{g}$ $1000\text{kg} = 1\text{tonne}$ $1634\text{g} = 1.634\text{kg}$ $20\text{kg} = 20,000\text{g}$ </p>
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