

<p>Additional Calculations Needed for Maths Mountain Challenge</p> <p>Note: For SILVER and GOLD awards children should answer 10 questions.</p>	<p>Story of 20</p> <p>0 + 20 = 20 1 + 19 = 20 2 + 18 = 20 3 + 17 = 20 4 + 16 = 20 5 + 15 = 20 6 + 14 = 20 7 + 13 = 20 8 + 12 = 20 9 + 11 = 20 10 + 10 = 20</p> <p>(B) (S) (G)</p>	<p>Story of 20</p> <p>10 + 10 = 20 11 + 9 = 20 12 + 8 = 20 13 + 7 = 20 14 + 6 = 20 15 + 5 = 20 16 + 4 = 20 17 + 3 = 20 18 + 2 = 20 19 + 1 = 20 20 + 0 = 20</p> <p>(B) (S) (G)</p>	<p>$\frac{1}{2}$S $\frac{1}{4}$S and $\frac{1}{10}$S (orange flashcards)</p> <p>Bronze: Child can recite each fraction in order and its percentage equivalent including $\frac{2}{2}$, $\frac{4}{4}$, and $\frac{10}{10} = 100\%$.</p> <p>Sliver: As above but decimal equivalents.</p> <p>Gold: Given 10 random fractions, decimals or percentages, child can give both of the other equivalents.</p> <p>(B) (S) (G)</p>	<p>Two-Digit Doubles (pink flashcards)</p> <p>Bronze: N/A</p> <p>Sliver: Child gets 10 flashcards correct.</p> <p>Gold: Without flashcards child can answer, e.g.,</p> <ul style="list-style-type: none"> • 63 + 63 • 2 x 89 • 2 lots of 78 • double 57 <p>(S) (G)</p>	<p>Two-Digit Halves (pink flashcards)</p> <p>Bronze: N/A</p> <p>Sliver: Child gets 10 flashcards correct.</p> <p>Gold: Without flashcards child can answer, e.g.,</p> <ul style="list-style-type: none"> • 50% of 106 • 0.5 x 198 • $\frac{1}{2}$ of 164 • $\frac{1}{2}$ x 158 <p>(S) (G)</p>
<p>Story of 100 in 10s</p> <p>0 + 100 = 100 10 + 90 = 100 20 + 80 = 100 30 + 70 = 100 40 + 60 = 100 50 + 50 = 100 60 + 40 = 100 70 + 30 = 100 80 + 20 = 100 90 + 10 = 100 100 + 0 = 100</p> <p>(B) (S) (G)</p>	<p>+ and – numbers ≤ 20 (green flashcards)</p> <p>Bronze: Child can add 10 sets of 2 randomly chosen numbers from flashcards without visual prompts.</p> <p>Sliver: As above but subtracting.</p> <p>Gold: As above when asked using a range of language, e.g., total, difference, sum, how many more.</p> <p>(B) (S) (G)</p>	<p>Story of 100 (yellow flashcards)</p> <p>Bronze: N/A</p> <p>Sliver: Child gets 10 flashcards correct.</p> <p>Gold: Without flashcards child can answer, e.g.,</p> <ul style="list-style-type: none"> • 100 – 32 • What do you need to add to 47 to make 100? • What is the difference between 100 and 29? <p>(S) (G)</p>	<p>Story of 1000 in 10s and 100s</p> <p>Bronze: Child can recite bonds to 1000 in 100s, e.g.,</p> <ul style="list-style-type: none"> • 0 + 1000 = 1000 • 100 + 900 = 1000 • 200 + 800 = 1000, etc. <p>Sliver: Child can respond with the bond to 1000, e.g. <i>Adult: 540, Child: 460.</i></p> <p>Gold: As with story of 100 but with multiples of 10.</p> <p>(B) (S) (G)</p>	<p>$\frac{1}{3}$S, $\frac{1}{5}$S and $\frac{1}{8}$S (blue flashcards)</p> <p>Bronze: Child can recite each fraction in order and its percentage equivalent including $\frac{3}{3}$, $\frac{5}{5}$, and $\frac{8}{8} = 100\%$.</p> <p>Sliver: As above but decimal equivalents.</p> <p>Gold: Given 10 random fractions, decimals or percentages, child can give both of the other equivalents.</p> <p>(B) (S) (G)</p>	<p>Story of 1 (yellow flashcards)</p> <p>Bronze: N/A</p> <p>Sliver: Child can give the bond to 1 for 10 different fractions.</p> <p>Gold: Child can answer, e.g.,</p> <ul style="list-style-type: none"> • $1 - \frac{2}{3}$ • What do you need to add to $\frac{3}{4}$ to make 1? • What is the difference between 1 and $\frac{3}{4}$? <p>(S) (G)</p>