



Mental Maths Challenge v2 – The Strategies

| COPPER | | BRONZE | | SILVER | | GOLD | | PLATINUM | |
|--------|---|--------|---|--------|--|------|---|----------|--|
| 1 | Easy Doubles <i>(double 9....20.....400)</i> | 1 | Harder Doubles <i>(double 19.....420)</i> | 1 | Even Harder Doubles <i>(double 83....420)</i> | 1 | Applying Doubles <i>(18×4 is double 9×4)</i> | 1 | Doubling decimals <i>(double 1.6.....1.07)</i> |
| 2 | Looking for 10s <i>(8+5+2; 80+70+30)</i> | 2 | Odd halves with fractions <i>half of 7....27)</i> | 2 | Mixed Doubles and Halves | 2 | Halving ODD numbers <i>(half of 15...107)</i> | 2 | ÷5 and 1/5 is double ÷10 <i>(68÷5.....1/5 of 19)</i> |
| 3 | Easy Halves <i>(half of 8....30....120)</i> | 3 | Bridging multiples of 10 <i>(17+5; 28+4; 139+7)</i> | 3 | Combining tables with x10 (70×6) | 3 | Equivalent Measures <i>(750g...50mm½ of 1kg ...¼ of 1litre.)</i> | 3 | Percentages (1) <i>(10%...50%...25%.)</i> |
| 4 | Harder Halves <i>(half of 42....1600)</i> | 4 | Small differences <i>(61-57; 103-96; 1020-995)</i> | 4 | ×20 is ×2 then ×10 <i>(20× 30...×54)</i> | 4 | Negative numbers <i>(-3° rises 2°2° falls 3°)</i> | 4 | Dreadful doubles <i>(double 368)</i> |
| 5 | Change from £1 multiples of 5p <i>(£1-30p; £1-45p)</i> | 5 | Adding near multiples of 10 (1) <i>(27+9; 35+19;)</i> | 5 | ×4 is doubling, twice <i>(4× 13....×32)</i> | 5 | ÷4 and ¼ is halving, twice <i>(¼ of 10...128÷4)</i> | 5 | Percentages (2) <i>(5%...20%....60%.... of money)</i> |
| 6 | Bonds of 1000 <i>(1000-800, 1000 -250)</i> | 6 | Fractions of money (unitary) <i>(1/3 of £15; 1/8 f £24)</i> | 6 | ÷10 <i>(123÷10...14÷10)</i> | 6 | Rounding money (x) <i>(£1.99p×3)</i> | 6 | Division with decimals <i>(40÷0.8...)</i> |
| 7 | COPPER MIXTURE | 7 | Change from £1 <i>(£1-17p; £1-69p)</i> | 7 | Fractions of numbers <i>(2/5 of 20; 7/8 of 32)</i> | 7 | Partitioning (2) <i>(23×7) ×5 is half of ×10</i> | 7 | What's the change from...? <i>(-3° to 2° ...7 to -2)</i> |
| | | 8 | BRONZE MIXTURE | 8 | Partitioning (1) <i>(13×8)</i> | 8 | ×5 is half of x10 <i>(5× 38....0.9)</i> | 8 | Percentages (3) <i>(15%...75%.)</i> |
| | | | | 9 | Rounding money (+/-) <i>(£2.99+£1.99; £5-£3.99)</i> | 9 | Find the Average <i>(of 5, 1, 7, 3; 20, 50, 20;)</i> | 9 | Rounding to Estimate <i>(29×61...)</i> |
| | | | | 10 | Adding near multiples of 10 (2) <i>(123+38; 536+190)</i> | 10 | Same Difference or Compensating <i>(23-9; 83-38; 165-48)</i> | 10 | Percentage discounts <i>(5%...10% ...25% off)</i> |
| | | | | 11 | SILVER MIXTURE | 11 | GOLD MIXTURE | 11 | PLATINUM MIX. |