

**Grade 1:**

- Addition up to 100, Ex:  $74 + 8$
- Subtraction up to 100, Ex:  $65 - 7$
- Doubling of single digit numbers, Ex:  $6+6$
- Doubling of 10s, Ex:  $40+40$
- Doubling of numbers ending with 5s, Ex: 35
- Missing numbers, Ex:  $7 + \underline{\quad} = 7$

**Criteria: 50 questions to be solved in 15 minutes**

**Grade 2:**

- Addition up to 200, Ex:  $135 + 8$
- Addition of more than 2 single digit number, Ex:  $7 + 8 + 3$
- Subtraction up to 200, Ex:  $184 - 6$
- Doubling of single digit numbers, Ex:  $6+6$
- Doubling of 10s, Ex:  $80+80$
- Doubling of numbers ending with 5s, Ex: 75
- Missing number, Ex:  $13 - \underline{\quad} = 0$

**Criteria: 50 questions to be solved in 15 minutes**

**Grade 3:**

- Addition up to 1000, Ex:  $749 + 7$
- Addition of more than 2 numbers, Ex:  $48 + 7 + 2$
- Add to 10s, Ex:  $36 + 40$
- Subtraction up to 1000, Ex:  $432 - 8$
- Subtract 10s. Ex:  $94 - 30$
- Subtract any number from 100s, Ex:  $500 - 85$
- Doubling up to 2 digit numbers, Ex:  $42+42$
- Mixed addition and subtraction, Ex:  $12 - 5 + 6$
- Missing number, Ex:  $42 + \underline{\quad} = 50$

**Criteria: 75 questions to be solved in 15 minutes**

**Grade 4:**

- Addition up to 1000, Ex:  $832 + 8$
- Addition of 2 digit by 2 digit, Ex:  $74 + 37$
- Addition of more than 2 numbers, Ex:  $24 + 30 + 46$
- Add to 10s, Ex:  $458 + 70$
- Doubling up to 3 digit numbers, Ex:  $314+314$
- Subtraction up to 1000, Ex:  $511 - 9$
- Subtract 2 digit from 2 digit, Ex:  $83 - 47$
- Subtract 10s, Ex:  $614 - 80$
- Subtract any number from 1000 and 100s, Ex:  $1000 - 424, 800 - 264$
- Multiply by 2, 5, and 10 tables, Ex:  $7 \times 5$
- Multiply by 20, 50 and 100 tables, Ex:  $8 \times 20$
- Order of operations, Ex:  $12 + 2 \times 5 - 2$

- Missing numbers,  $100 - \underline{\quad} = 56$

**Criteria: 75 questions to be solved in 15 minutes**

**Grade 5:**

- Addition up to 1000, Ex:  $832 + 8$
- Addition up to 3 digit by 3 digit, Ex:  $372 + 258$
- Addition of more than 2 numbers, Ex:  $24 + 30 + 46$
- Add to 10s and 100s, Ex:  $458 + 70$
- Add to numbers ending with 9s, Ex:  $825 + 89$
- Subtraction up to 1000, Ex:  $511 - 9$
- Subtract up to 3 digit, Ex:  $783 - 147$
- Subtract 10s and 100s, Ex:  $614 - 300$
- Subtract numbers ending with 9s, Ex:  $942 - 299$
- Subtract any number from 1000 and 100s, Ex:  $1000 - 424$ ,  $800 - 264$
- Multiplication up to 3 digit by single digit, Ex:  $423 \times 6$
- Multiply by 10s, Ex:  $42 \times 70$
- Doubling to multiply by 2 and 4, Ex:  $137 \times 4$
- Halving to divide by 2 and 4, Ex:  $376/4$
- Order of operations, Ex:  $48 \div (10 - 2) \times 5$
- Missing numbers, Ex:  $32 \times \underline{\quad} = 3200$

**Criteria: 100 questions to be solved in 10 minutes**

**Grade 6:**

- Addition, Ex:  $832 + 475$
- Addition of more than 2 numbers, Ex:  $24 + 30 + 46$
- Add to numbers ending with 9s and 8s, Ex:  $346 + 58$
- Subtraction, Ex:  $832 - 156$
- Subtract numbers ending with 9s and 8s, Ex:  $756 - 398$
- Subtract any number from 1000 and 100s, Ex:  $1000 - 424$ ,  $800 - 264$
- Multiplication up to 3 digit by single digit, Ex:  $423 \times 6$
- Multiply by 10s, Ex:  $42 \times 70$
- Multiply 2 digit by 11, Ex:  $47 \times 11$
- Multiply 2 digit by 99, Ex:  $83 \times 99$
- Doubling to multiply by 2 and 4, Ex:  $137 \times 4$
- Halving to divide by 2 and 4, Ex:  $376/4$
- Order of operations, Ex:  $100 - 45 \div 9 \times 12$
- Missing number, Ex:  $1000 - \underline{\quad} = 942$

**Criteria: 100 questions to be solved in 10 minutes**

**Grade 7:**

- Addition including decimals up to 2 decimal digits, Ex:  $46.5 + 8.74$
- Add to numbers ending with 9s and 8s, Ex:  $346 + 58$
- Subtraction including decimals up to 2 decimal places, Ex:  $81.5 - 25.36$
- Subtract numbers ending with 9s and 8s, Ex:  $756 - 398$

- Subtract any number from 1000 and 100s, Ex:  $1000 - 424$ ,  $800 - 264$
- Subtract decimal numbers from whole numbers, Ex:  $4 - 0.72$
- Multiplication up to 3 digit by single digit, Ex:  $423 \times 6$
- Multiply by 10s, Ex:  $42 \times 70$
- Multiply any number of digit by 11, Ex:  $254 \times 11$
- Multiply any number by equal number of 9s, Ex:  $183 \times 999$
- Doubling to multiply by 2 and 4, Ex:  $137 \times 4$
- Doubling to divide by 5 and 25, Ex:  $175/25$
- Halving to divide by 2 and 4, Ex:  $376/4$
- Halving to multiply by 5 and 25, Ex:  $13 \times 25$
- Order of operations, Ex:  $(42 + 88) \div 10 \times (7 - 2)$
- Missing numbers,  $85 \div \underline{\quad} = 5$

**Criteria: 100 questions to be solved in 10 minutes**

#### **Grade 8:**

- Addition including decimals up to 3 decimal digits, Ex:  $46.524 + 8.74$
- Add to numbers ending with 9s and 8s, Ex:  $346 + 58$
- Subtraction including decimals up to 3 decimal places, Ex:  $81.504 - 25.36$
- Subtract numbers ending with 9s and 8s, Ex:  $756 - 398$
- Subtract any number from 10000s, 1000s and 100s, Ex:  $50000 - 424$ ,  $800 - 264$
- Subtract decimal numbers from whole numbers, Ex:  $23 - 1.723$
- Multiplication up to 4 digit by single digit, Ex:  $4238 \times 6$
- Multiply by 10s and 100s, Ex:  $425 \times 700$
- Multiply any number of digit by 11, Ex:  $2254 \times 11$
- Multiply any number by equal number of 9s, Ex:  $7183 \times 9999$
- Multiply numbers with same tens and pairs in units place, Ex:  $46 \times 44$
- Squares up to 2 digits, Ex:  $47^2$
- Doubling to multiply by 2 and 4 including decimals, Ex:  $13.7 \times 4$
- Doubling to divide by 5 and 25 including decimals, Ex:  $32/25$
- Halving to divide by 2 and 4 including decimals, Ex:  $3.76/4$
- Halving to multiply by 5 and 25 including decimals, Ex:  $1.3 \times 25$
- Percentages using doubling and halving, Ex: 25% of 86
- Order of operations, Ex:  $12.5 + 5.5 \times 11$
- Missing numbers, Ex:  $8 + \underline{\quad} = 8.56$

**Criteria: 100 questions to be solved in 10 minutes**

#### **Grade 9:**

- Addition including whole numbers, decimals and fractions, Ex:  $2/7 + 5/14$
- Add to numbers ending with 9s and 8s, Ex:  $346 + 58$
- Subtraction including whole numbers, decimals and fractions, Ex:  $7/9 - 20/81$
- Subtract numbers ending with 9s and 8s, Ex:  $756 - 398$
- Subtract any number from powers and multiples of 10s, Ex:  $50000 - 424$ ,  $800 - 264$
- Subtract decimal numbers from whole numbers, Ex:  $23 - 1.723$
- Subtract fractions from whole numbers, Ex:  $9 - 2/5$

- Multiplication of whole numbers and decimals, Ex:  $21.5 \times 0.3$
- Multiply by 10s and 100s including decimals, Ex:  $4.25 \times 700$
- Multiply by 11 including decimals, Ex:  $2.254 \times 1.1$
- Multiply by equal number of 9s including decimals, Ex:  $718.3 \times 99.99$
- Multiply numbers with same tens and pairs in units place including decimals, Ex:  $4.6 \times 4.4$
- Multiply numbers close to 100, Ex:  $97 \times 94$
- Squares up to 2 digits, Ex:  $47^2$
- Doubling to multiply by 2 and 4 including decimals, Ex:  $13.7 \times 4$
- Doubling to divide by 5 and 25 including decimals, Ex:  $32/25$
- Halving to divide by 2 and 4 including decimals, Ex:  $3.76/4$
- Halving to multiply by 5 and 25 including decimals, Ex:  $1.3 \times 25$
- Percentages using doubling and halving including decimals, Ex: 25% of 8.6
- Single digit and 10s percentage, Ex: 7% of 42.5
- Order of operations, Ex:  $\frac{1}{2}$  of  $36 \div 0.1 + 20$
- Missing numbers,  $7 - \underline{\quad} = 6.42$

**Criteria: 100 questions to be solved in 10 minutes**

#### **Grade 10:**

- Addition including whole numbers, decimals and fractions, Ex:  $2/7 + 5/14$
- Add to numbers ending with 9s and 8s, Ex:  $346 + 58$
- Subtraction including whole numbers, decimals and fractions, Ex:  $7/9 - 20/81$
- Subtract numbers ending with 9s and 8s, Ex:  $756 - 398$
- Subtract any number from powers and multiples of 10s, Ex:  $50000 - 424, 800 - 264$
- Subtract decimal numbers from whole numbers, Ex:  $23 - 1.723$
- Subtract fractions from whole numbers, Ex:  $9 - 2/5$
- Multiplication of whole numbers and decimals, Ex:  $21.5 \times 0.3$
- Multiply by 10s and 100s including decimals, Ex:  $4.25 \times 700$
- Multiply by 11 including decimals, Ex:  $2.254 \times 1.1$
- Multiply by equal number of 9s including decimals, Ex:  $718.3 \times 99.99$
- Multiply numbers with same tens and pairs in units place including decimals, Ex:  $4.6 \times 4.4$
- Multiply numbers close to 100 and 1000, Ex:  $997 \times 994$
- Squares up to 3 digits including decimals, Ex:  $12.3^2$
- Doubling to multiply by 2 and 4 including decimals, Ex:  $13.7 \times 4$
- Doubling to divide by 5 and 25 including decimals, Ex:  $32/25$
- Halving to divide by 2 and 4 including decimals, Ex:  $3.76/4$
- Halving to multiply by 5 and 25 including decimals, Ex:  $1.3 \times 25$
- Percentages using doubling and halving including decimals, Ex: 25% of 8.6
- Single digit and 10s percentage, Ex: 7% of 42.5
- 2 digit percentage including decimals, Ex: 49% of 28.86
- Order of operations, Ex:  $8.65 + 6^2 \div 0.9$
- Missing numbers, Ex:  $4.76 \div \underline{\quad} = 47.6$

**Criteria: 100 questions to be solved in 10 minutes**