

Mental Math Sample

- _____ 1) $1999 \cdot 5 + 43 =$
- _____ 2) $126 - 621 =$
- _____ 3) $11 \cdot 123 =$
- _____ 4) $11^3 =$
- _____ 5) $56 \cdot 12 + 24 \cdot 12 =$
- _____ 6) $\log_2 7 \cdot \log_{49} 8 =$ (decimal)
- _____ 7) Find the median of 16, 12, 18, 10, and 19.
- _____ 8) $2009_{11} =$
- _____ 9) Smallest prime greater than 1000 =
- _____ 10) $3\frac{1}{3} \div 2\frac{1}{2} =$ (mixed number)
- _____ 11) CDXXIV = (Arabic numeral)
- _____ 12) The GCF of 56 and 98 is
- _____ 13) Which is larger: $\frac{6}{17}$ or $\frac{10}{29}$?
- _____ 14) $802 \cdot 798 =$
- _____ 15) What is one-third plus 0.40 ?
- _____ 16) Find the 13th term of the arithmetic sequence, 1, 5, 9, ---.
- _____ 17) Find the solutions of $x^2 - 11x - 60 = 0$.
- _____ 18) Find the sum of $\sqrt{75}$ and $\sqrt{48}$.
- _____ 19) Find the probability of getting a head on a coin flip and rolling a 3 on a 6-sided die.
- _____ 20) $50^2 - 15^2 =$
- _____ 21) $\left(\sqrt{\frac{1}{27}}\right)^{\frac{4}{3}} =$
- _____ 22) 50% of 30% of 80% of 50 =
- _____ 23) Find the number of degrees between the hands of a clock at 3:30.
- _____ 24) Slope-intercept form for the line passing through the points (2,5) and (-1,-4).
- _____ 25) $843 + 779 =$
- _____ 26) $343_5 =$ ____₁₀
- _____ 27) A triangle has interior angles of 36, 84, and $4x + 36$. Find the value of x .
- _____ 28) Four consecutive integers sum to 66. What is the second largest of the 4 numbers?
- _____ 29) If $A = 3, B = 7, A^2 B =$
- _____ 30) If $x + y = 6, x - y = 3, x^2 =$ (decimal)
- _____ 31) $16 \cdot 16\frac{15}{16} =$
- _____ 32) How many minutes in 3 days?
- _____ 33) ${}_8 C_3 =$
- _____ 34) $\frac{2009}{11} =$ (mixed number)
- _____ 35) y-intercept of $y = x^2 - 4x + 4$
- _____ 36) Convert $\overline{.744}$ to a simplified fraction.
- _____ 37) If 4 apples cost \$.78, a dozen apples cost
- _____ 38) $1^2 + 2^2 + 3^2 \dots + 10^2 =$
- _____ 39) Volume of a cube with surface area 294 =
- _____ 40) What is the third pentagonal number?

Mental Math Sample Answers

- 10038 1) $1999 \cdot 5 + 43 =$
 -495 2) $126 - 621 =$
- 1353 3) $11 \cdot 123 =$
- 1331 4) $11^3 =$
- 960 5) $56 \cdot 12 + 24 \cdot 12 =$
- 1.5 6) $\log_2 7 \cdot \log_{49} 8 =$ (decimal)
- 16 7) Find the median of 16, 12, 18, 10, and 19.
- 2671 8) $2009_{11} =$ _____₁₀
- 1009 9) Smallest prime greater than 1000 =
- $\frac{1}{3}$ 10) $3\frac{1}{3} \div 2\frac{1}{2} =$ (mixed number)
- 424 11) CDXXIV = (Arabic numeral)
- 14 12) The GCD of 56 and 98 is
- $\frac{6}{17}$ 13) Which is larger: $\frac{6}{17}$ or $\frac{10}{29}$?
- 639996 14) $802 \cdot 798 =$
- $\frac{11}{15}$ 15) What is one-third plus 40 %?
- 49 16) Find the 13th term of the arithmetic sequence, 1, 5, 9, ---.
- 15, -4 17) Find the roots of $x^2 - 11x - 60 = 0$.
- $9\sqrt{3}$ 18) Find the sum of $\sqrt{75}$ and $\sqrt{48}$.
- $\frac{1}{12}$ 19) Find the probability of getting a head on a coin flip and rolling a 3 on a 6-sided die.
- 2275 20) $50^2 - 15^2 =$
- 9 21) $\left(\sqrt{\frac{1}{27}}\right)^{\frac{4}{3}} =$

- 6 22) 50% of 30% of 80% of 50=
- 75 23) Find the number of degrees between the hands of a clock at 3:30.
- $y = 3x - 1$ 24) Slope intercept form for the line passing through the points (2,5) and (-1,-4).
- 1622 25) $843 + 779 =$
- 98 26) $343_5 =$ _____₁₀
- 6 27) A triangle has interior angles of 36, 84, and $4x + 36$. Find the value of x.
- 17 28) Four consecutive integers sum to 66. What is the second largest of the 4 numbers?
- 63 29) If $A = 3, B = 7, A^2B =$
- 20.25 30) If $x + y = 6, x - y = 3, x^2 =$ (decimal)
- 271 31) $16 \cdot 16\frac{15}{16} =$
- 4320 32) How many minutes in 3 days?
- 56 33) ${}_8C_3 =$
- $182\frac{7}{11}$ 34) $\frac{2009}{11} =$ (mixed number)
- 4 or (0,4) 35) y-intercept of $y = x^2 - 4x + 4$
- $\frac{248}{333}$ 36) Convert $\overline{.744}$ to a fraction.
- 2.34 37) If 4 apples cost \$.78, a dozen apples cost
- 385 38) $1^2 + 2^2 + 3^2 \dots + 10^2 =$
- 343 39) Volume of a cube with surface area 294 =
- 12 40) What is the third pentagonal number?