

MENTAL MATH #1

As you work each set of problems mentally keep track of your time. Correct your answers, and then record your scores and times below.

Hint: To take 10% of a number, divide it by 10.

Shortcut: If the number ends in a zero, remove it.

Examples: 10% of 70 = 7 or 10% of 300 = 30

Shortcut: For any other number, move the decimal one place to the left

Examples: 10% of 15 = 1.5 or 10% of 25.8 = 2.58

<p>ADDING & SUBTRACTING</p> <ol style="list-style-type: none"> 1. $5 + 5 =$ 2. $6 + 8 =$ 3. $9 + 9 =$ 4. $7 + 4 =$ 5. $6 + 7 =$ 6. $8 + 8 =$ 7. $9 + 6 =$ 8. $14 - 9 =$ 9. $15 - 7 =$ 10. $16 - 8 =$ 11. $11 - 5 =$ 12. $12 - 7 =$ 13. $13 - 8 =$ 14. $17 - 9 =$ 15. $15 - 6 =$ 	<p>MULTIPLYING & DIVIDING</p> <ol style="list-style-type: none"> 1. $5 * 5 =$ 2. $7 * 8 =$ 3. $6 * 6 =$ 4. $9 * 7 =$ 5. $7 * 7 =$ 6. $6 * 9 =$ 7. $8 * 8 =$ 8. $5 * 9 =$ 9. $40 \div 5 =$ 10. $54 \div 6 =$ 11. $63 \div 9 =$ 12. $48 \div 6 =$ 13. $72 \div 8 =$ 14. $81 \div 9 =$ 15. $42 \div 6 =$ 	<p>ALGEBRAIC EVALUATION</p> <p>Evaluate each algebraic expression when $a = -1, b = 3, c = 2$</p> <ol style="list-style-type: none"> 1. $a + b$ 2. $ab - c$ 3. $a(b + c)$ 4. $a^2 - b$ 5. $a - b - c$ 6. $a + 2b - 3c$ 7. $(c - b)/a$ 8. $c(a + b)^2$ 9. abc/a 10. $(a + b + c)/a$
<p>FRACTION RELAY</p> <ol style="list-style-type: none"> 1. Start with 8 2. $\times 5$ 3. $1/4$ of this 4. $1/2$ of this 5. n^2 6. plus 7 7. minus 10 8. $1/2$ of this 9. + 4 10. $1/3$ of this <p>And the answer is ?</p>	<p>PERCENT RELAY</p> <ol style="list-style-type: none"> 1. Start with 50 2. 10% of this 3. plus 5 4. 10% of this 5. plus 6 6. double this 7. minus 9 8. 80% of this 9. n^2 10. 50% of this <p>And the answer is?</p>	<p>CHALLENGE RELAY</p> <ol style="list-style-type: none"> 1. Start with 16 2. 50% of this 3. n^2 4. six more 5. $1/10$ of this 6. times 8 7. minus 7 8. \sqrt{n} 9. 200% of this 10. times 9 <p>And the answer is?</p>

	Adding/ Subtracting	Multiplying/ Dividing	Algebraic Evaluation	Fraction Relay	Percent Relay	Challenge Relay
Time						
Score						