



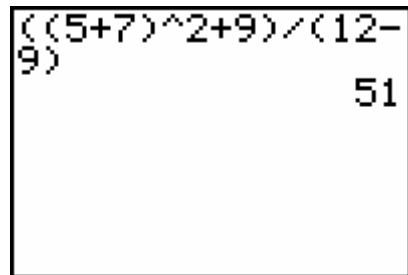
# 7<sup>TH</sup> GRADE TI-84 ACTIVITY 25: MENTAL, PAPER, DIGITAL

### ACTIVITY OVERVIEW:

In this activity we will

- Practice simplifying and evaluating expressions
- Decide appropriate methods to solve problems

For each of the problems in this activity, indicate your answer on the right and tell whether you used mental math, paper with pencil or calculator to solve the problem. Be ready to justify your choice with your teacher.



$5(20-8) + 6$

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$4*6-2$ 

\* means multiply

\_\_\_\_\_

$24/8 \cdot 2^4$

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Evaluate  $36/x$  when  $x=4$

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Evaluate  $6x+2y$  when  $x=9$  and  $y=-3$

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Evaluate  $(9+x)/(4y)$  when  $x=7$  and  $y=-2$

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Evaluate  $3+2x^3$  when  $x=2$

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Evaluate  $5(X +5)^2 -2$  when  $x = 12$

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Remember that when you are evaluating expressions separated by a vinculum, you must place each expression in parentheses on the top or bottom of the vinculum.

$$\frac{2(5)^3 + 35}{8(3+2)}$$

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