1. Students need to **memorize the first 25 squares**
   $\{1^2 = 1,\ 2^2 = 4,\ 3^2 = 9,\ \ldots\ 25^2 = 625\}$
2. What is the value of $|-7|$?
3. Simplify: $\sqrt{36}$
4. Calculate: 2^4
5. Evaluate: $|-12| + 5$
6. Simplify: $\sqrt{81} - 3$

Intermediate Questions:

6. Evaluate: $|-3 \cdot 4| + 2^3$
7. Simplify: $\sqrt{25} \cdot \sqrt{36} - 1$
8. Calculate: $(5-2)^3 + |-12|$
9. If $x = -6$, what is the value of $|x| + x^2$?
10. Solve for y: $2\sqrt{y} = 18$
11. Simplify: $\left(\sqrt{9}\right)^2 + |-11|$
12. Calculate: $3^3 - \sqrt{49} + |5|$
13. Could $\sqrt{100}$ equal to –10? Explain.
14. What is the value of $2^5 - |-8| + \sqrt{225}$?
15. If $a = -4$, find the value of $|a| + \frac{a^2}{2}$.

Advanced/Challenging Questions:

16. Simplify: $\sqrt{196} + |-5 \cdot 3| + (-3)^2$
17. Solve for x: $x^2 = 289$ (consider both positive and negative solutions).
18. Evaluate: $\left|\sqrt{256} - 2^5\right| + \left(\frac{1}{2}\right)^3$, mixed number as solution.
19. Given $f(x) = \left|10 - x^2\right| + \sqrt{x-3}$, find $f(12)$.
20. Simplify: $4 \cdot \sqrt{289 - 64} - (-2)^3$
21. Order from least to greatest: $|-5|,\ 2^2,\ \sqrt{25},\ -|7|,\ (-2)^4$
22. Solve for m: $|m - 5| = 8$, think about all possibilities. Two solutions!
23. Find the value of $(-3)^3 + |-2 \cdot 5| - \frac{\sqrt{576}}{3}$.