

Indicators

Objective:

1.02 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.

Vocabulary and Resources		
guess and test	make an organized list	find a pattern
make a table/chart/graph	work backwards	extraneous information
make a diagram/picture	work a simpler problem	

A. In basketball, the equation $P = 2x - x^2$ describes a player's theoretical chance of scoring at least one point in a two-shot free throw situation. P is the player's chance of scoring and x is the player's current free throw shooting percentage. If Ray is a 39% free throw shooter, what is his chance of scoring at least one point the next time he is in a two-shot situation?

B. If 10% of a number is 6, what is 35% of the same number?

C. Jane wants to fence her 25 ft. by 35 ft. garden plot. She plans to put a post every 5 feet along the perimeter. How many fence posts will she need?

D. You spend 30 minutes watching TV and $\frac{3}{4}$ of an hour studying for each of your two tests. You then decide to take a 15-minute snack break. If you finish studying at 5:30 p.m., what time did you start?