

Problem of the Week
Problem A and Solution
Game On!

Problem

A video game costs $75, including taxes. Jordan has $20 in savings to start. Jordan earns $8 each week walking the neighbour's dog, which is put aside to save enough to buy the game. So, after one week, Jordan has at total of $28.

(a) After how many weeks will Jordan have enough money to buy the game?

(b) Does Jordan have any money left over after buying the video game?
If so, how much?

Solution

(a) We can use a table to keep track of how much Jordan has saved over time.

Week	Total Saved, in $
1	28
2	$28 + 8 = 36$
3	$36 + 8 = 44$
4	$44 + 8 = 52$
5	$52 + 8 = 60$
6	$60 + 8 = 68$
7	$68 + 8 = 76$

After 7 weeks Jordan will have saved enough money to buy the video game.

(b) Jordan has $76 - 75 = \$1$ left over after buying the game.