

Master Maths 8 Worksheet 26

Linear Relationships 2

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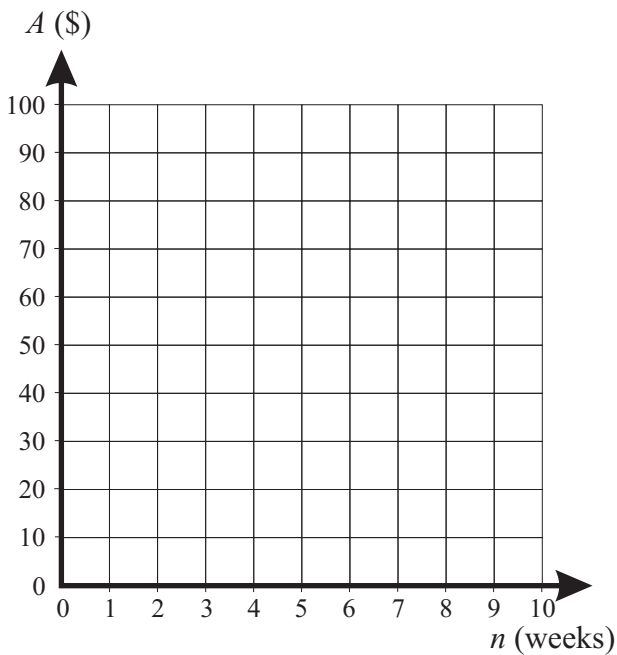
Name: _____

1. James has \$100 in his bank account and withdraws \$5 each week.
William has \$20 in his account and deposits \$5 each week.
- (a) Write an equation for the amount A in each of their accounts after n weeks.

James $A =$

William $A =$

- (b) Represent this information on the axes shown.



- (c) After how many weeks do they have the same amount in their accounts?

weeks

- (d) After how many weeks will James have no money in his account?

weeks

- (e) After 20 weeks how much will William have in his bank account?

\$

2. (a) For each of the following formulae complete the table of values shown.
(b) Plot the points for each table of values on the axes below.
(c) Circle the formulae that resulted in straight lines.

$y = 4x$

x	0	1	2	3	4	5
y						

$y = 3x + 2$

x	0	1	2	3	4	5
y						

$y = x^2 + 1$

x	0	1	2	3	4	5
y						

$y = 20 - x$

x	0	1	2	3	4	5
y						

