Name:
BAM Indicator: Solve linear equations in one unknown

1. Solve these equations
a) $8 k=24$
$\qquad$
b) $x-17=23$
c) $4 p-6=2$
$\qquad$
$p=$ $\qquad$
d) $10 v+6=46$
$v=$ $\qquad$
e) $7=4 y+1$
f) $3(x-2)=21$
$y=$ $\qquad$

$$
x=
$$

$\qquad$
g) $\frac{b}{7}+3=11$
$b=$ $\qquad$
h) $\frac{x+2}{3}=4$
$x=$ $\qquad$
2. Amanda solves the equation $6 x+9=57$. She gets the answer $x=0.5$. Do you agree with Amanda? Explain your answer.
3. In a class of 30 students, there are four more girls than boys.
a) Using $x$ as the number of boys, write down an equation
b) Solve the equation and find the number of girls in the class.
4. The formula $v=u+a t$ describes connections between

- $u$ : starting velocity
- $a$ : acceleration
- t: time
- $v$ : final velocity
a) In a particular situation, $u=0, v=49$ and $a=9.8$. Substitute these numbers into the formula to create an equation.
b) Solve the equation to find the value of $t$
$\qquad$
$t=$

5. Look at the following equations:
$4 x+1=37$
$\frac{x-1}{2}=4$
$4(2 x+1)=40$ $\frac{x}{2}-1=3.5$

Which is the odd one out? Put a ring around the one that is.
Give reasons for your answer.

| Overall, I think my success level is: | Low $\quad$ High |
| :--- | :--- |

$F=$ Fluency $\quad R=$ Reasoning $\quad P=$ Problem-solving $\quad A=$ Application $\quad M=$ Misconception


