## problem 1

write down a rule for finding the ${ }_{n}^{\text {th }}$ term in the following sequence ..
write down a rule for finding the $n$th term in the following sequence ...
$n:(1)(2) 34$
$2 n$ : (2) (4) (6) (8) (10)

$$
5, \underbrace{7}_{2}, 9,11,13
$$

27

- first difference is 2 (so using $2 n$ )
- terms in sequence are $3 \xlongequal{\text { more }}$ than $2 n$

$$
n^{\text {th }} \text { term rule : } 2 n+3
$$

$n$ :
$\square_{n}$ :
(4)
(8) (12)
(16)
(20)
$3,7,11,15,19$
79

- first difference is $\square$ (so using $\square_{n}$ )
- terms in sequence are $l$ less than $\square$ n

$$
n^{\text {th }} \text { term rule }: \square n-1
$$

## problem 2

write down a rule for finding the $n$th term in the following sequence ..
$n$ :
$3 n$ :
(3)(12) (15)
(45)
$7,10,13,16,19$


- first difference is 3 ( so using $3 n$ )
- terms in sequence are $\square$ than $3 n$

$$
n^{\text {th }} \text { term rule : } 3 n \square \square
$$

## problem 3

write down a rule for finding the $n^{\text {th }}$ term in the following sequence ...
n: (1) (2) (3) (4) 5
$\square$ n
$7,12,17,22,27$ $\square$

- first difference is $\square$ (so using $\square$ n)
- terms in sequence are $\qquad$ $\square^{\text {than }} \square$ n

$$
\mathrm{n}^{\text {th }} \text { term rule : } \square \mathrm{n} \square \square
$$

## problem 4

write down a rule for finding the $n^{\text {th }}$ term in the following sequence...
n: (1)



$$
1,4,7,10,13
$$

$\square$

- first difference is $\square$ (so using $\square$ n)
- terms in sequence are $\qquad$ $\square^{\text {than }} \square^{n}$

$$
\mathrm{n}^{\text {th }} \text { term rule : } \square \mathrm{n} \square \square
$$

## problem 5

write down a rule for finding the $n_{n}^{\text {th }}$ term in the following sequence..
${ }^{n}$

$7,9,11,13,15$
91

- first difference is $\square$ (so using $\square$ n)
- terms in sequence are $\square$ than $\square$ n

$$
\mathrm{n}^{\text {th }} \text { term rule : } \square \mathrm{n} \square \square
$$

