## Number Sequences and Patterns. Can you find the pattern?

Find the next six numbers of in these sequences:

1) Start at 8 and increase by 3 each time
$\square$
$\square$
$\square$
$\square$
$\square$
$\square$
2) Start at 14 and increase by 3 each time
$\square$
$\square$

$\square$
$\square$
$\square$
3) Start at 105 and decrease by 10 each time

4) Start at 10 and increase by 7 each time

5) Start at 800 and divide by 2 each time


Find the missing number in the following number sequences:
6) $3,6,9, \ldots \ldots, 15$
7) $5,50,500$, $\qquad$ 50000
8) $7, \ldots \ldots ., 21,28$ 42
9) $\frac{1}{2}, 1$,
$2,2 \frac{1}{2}$

Explain the rule for this sequence:
10) Tom was in a weight lifting competition. On his first lift he lifted 10 kg . On his second lift he lifted 15 kg . On his third lift he lifted 20kg. On his fourth lift, he lifted 25 kg .

What did you do to get the answer?
$\square$
What will Tom lift on his tenth lift?

11) Dean read a book. On the first day he read up to page 6. On the second day he read up to page 12. On the third day he read up to page 18.

Explain the rule for this sequence? What did you do to get the answer?

What page will he be up to on the fourth day?

How many pages will he have read up to on the eleventh day?

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