1. a) 140
× 8
1120
3

8 salamanders would weigh 1120 pounds.

b)
140
280
420
560
700
840

6 salamanders weigh 840 pounds.

2. a) There are 10 mm in 1 cm, so I need to ÷10 or move 1 space right.

T U·t
7
↘
7

So 7mm = 0·7cm.

b) 1000 × 7 = 7000. So if there were 1000 of these in a line, the line would be 7000 mm long.

c) mm → cm is ÷10 (move 1 space right)

Th H T U·t
7000
↘↘↘↘
700·0

so 700 cm.

cm → m is ÷100 (move 2 spaces right)

H T U·t
700
↘↘↘
7·00

so 7m.

3. a) There are 12 months in a year.

$$\begin{array}{r} 52 \\ \times\ 12 \\ \hline 104 \quad (\times 2) \\ 520 \quad (\times 10) \\ \hline 624 \end{array}$$

The oldest amphibian lived for 624 months.

b) There are 365 days in a year.

$$\begin{array}{r} 365 \\ \times\ \ 52 \\ \hline 730 \quad (\times 2) \\ 18250 \quad (\times 50) \\ \hline 18980 \end{array}$$

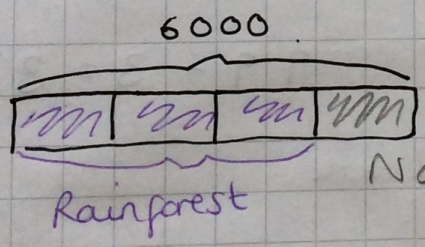
The oldest amphibian lived for 18,980 days.

4.

$$\begin{array}{r} 59 \\ +\ 5750 \\ +\ 1739 \\ \hline 7548 \\ \hline {\scriptstyle 1\ \ 1\ \ 1} \end{array}$$

I have travelled 7,548 miles altogether.

5. 75% is the same as $\frac{3}{4}$.



$6000 \div 4 = 1500.$

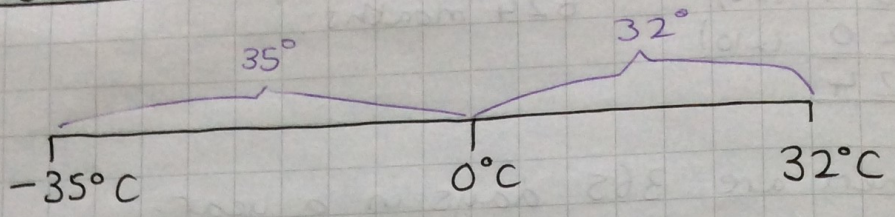
a) $1500 \times 3 = 4500$ 4500 species live in the rainforest.

b) 1500 species do not live in the rainforest.

6. $\begin{array}{r} {}^{1}\cancel{2}{}^{9}\cancel{0}{}^{1}\cancel{2}0 \\ -\ 1\ 9\ 8\ 1 \\ \hline 0\ 0\ 3\ 9 \end{array}$

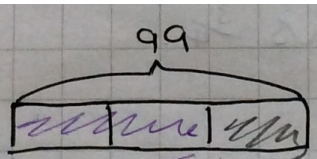
The act was written 39 years ago.

7.



$35 + 32 = 67$. The difference between the two temperatures is 67°C.

8.



$99 \div 3 = 33$.

a) $33 \times 2 = 66$ 66 species live in the National Park.

b) 33 species do not live in the National Park.