

$$\begin{array}{r} 1. a) \quad 1650 \\ \times \quad \quad 4 \\ \hline 6600 \\ \hline \end{array}$$

$$\begin{array}{r} 1400 \\ \times \quad \quad 4 \\ \hline 5600 \\ \hline \end{array}$$

$$\begin{array}{r} 6600 \\ + 5600 \\ \hline 12200 \\ \hline \end{array}$$

The total weight of four male and four female hippos is 12,200 kg.

b) $1650 \times 10 = 16,500$.

$$\begin{array}{r} 1400 \\ \times \quad \quad 12 \\ \hline 2800 \quad (\times 2) \\ 14000 \quad (\times 10) \\ \hline 16800 \\ \hline \end{array}$$

$$\begin{array}{r} 16500 \\ + 16800 \\ \hline 33300 \\ \hline \end{array}$$

The total weight of ten males and twelve female hippos is 33,300 kg.

$$\begin{array}{r} c) \quad 1650 \\ \times \quad \quad 12 \\ \hline 3300 \quad (\times 2) \\ 16500 \quad (\times 10) \\ \hline 19800 \\ \hline \end{array}$$

$1400 \times 10 = 14000$.

$$\begin{array}{r} 19800 \\ + 14000 \\ \hline 33800 \\ \hline \end{array}$$

The total weight of twelve male and ten female hippos is 33,800 kg.

2. 2.1 m \rightarrow I know 1 m = 100 cm.
So 2.1 m = 210 cm.

$$\begin{array}{r} 210 \\ + \quad 14 \\ \hline 224 \\ \hline \end{array}$$

They would be 224 cm tall altogether.

3. a) 1 day = 24 hours.

$24 - 14 = 10$. They sleep for 10 hours a day.

b) 1 hour = 60 minutes.

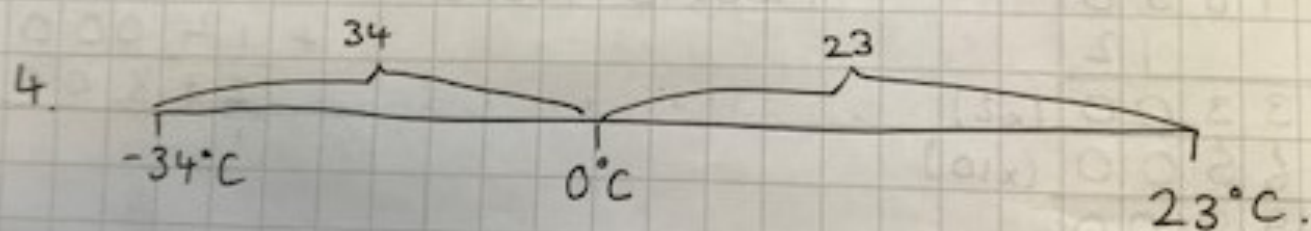
$10 \times 60 = 600$. They sleep for 600 minutes a day.

c) $14 \times 60 \rightarrow$

14
$\times \quad 6$
<hr/>
84
$\frac{2}{}$

If $14 \times 6 = 84$
then $14 \times 60 = 840$.

They eat for 840 minutes a day.



$$\begin{array}{r} 34 \\ + 23 \\ \hline 57 \end{array}$$

The difference between the two temperatures is 57°C .

$$5. a) \begin{array}{r} 93 \\ \times 6 \\ \hline 558 \\ \hline \end{array}$$

In 6 hours, a cheetah can travel 558 km.

b) 12 hours is double 6 hours.

$$\begin{array}{r} 558 \\ \times 2 \\ \hline 1116 \\ \hline \end{array}$$

In 12 hours, a cheetah can travel 1,116 km.

c) 24 hours is double 12 hours.

$$\begin{array}{r} 1116 \\ \times 2 \\ \hline 2232 \\ \hline \end{array}$$

In 24 hours, a cheetah can travel 2,232 km.

6. $1 \text{ kg} = 1000 \text{ g}$ so $5400 \text{ kg} = 5,400,000 \text{ g}$.

$$\begin{array}{r} 5,400,000 \\ - 200,002 \\ \hline 5,399,998 \\ \hline \end{array}$$

The difference in weight between an African bush elephant and a bumblebee bat is

$$5,399,998 \text{ g} \\ \text{or } 5399.998 \text{ kg.}$$

7. a) 220 is 10×22 .

If a koala sleeps for 220 hours, it has been 10 days.

$$\begin{array}{r} \text{b)} \quad \begin{array}{r} 0132 \\ 22 \overline{) 2904} \\ - 22 \quad \downarrow \\ \hline 70 \quad \downarrow \\ - 66 \quad \downarrow \\ \hline 44 \end{array} \end{array} \quad \begin{array}{r} 22 \\ 44 \\ 66 \\ 88 \end{array}$$

If a koala sleeps for 2904 hours, it has been 132 days.

8. a) 20% is the same as $\frac{1}{5}$.

$\frac{1}{5}$ of 500 is 100.

If there are 500 species, 100 migrate.

$$\text{b) } \frac{1}{5} \text{ of } 320. \quad \begin{array}{r} 064 \\ 5 \overline{) 320} \end{array}$$

If there are 320 species, 64 migrate.

$$\begin{array}{r} 9. \quad \begin{array}{r} 2020 \\ - 1662 \\ \hline 0358 \end{array} \end{array}$$

The last sighting of a dodo was 358 years ago.