

Year 6 task variation:

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18

A cat sleeps for **12 hours** each day.

50% of its life is spent asleep.



Write the missing percentage.

A koala sleeps for **18 hours** each day.

%

of its life is spent asleep.



Taken from the 2017 SATs reasoning paper

Handwritten student work for the koala problem:

Hours in a day = 24 hours		= Cat
12 hours asleep = 50%	12 hours awake = 50%	

Hours in a day = 24 hours		= Koala.
18 hours = Koala asleep	6 hours = Koala awake	

18 - hours Koala is asleep
 24 - Total hours in a day

24				= $\frac{3}{4}$	or $\frac{18 \div 6}{24 \div 6} = \frac{3}{4}$
6	6	6	6		
18 hours			6 hours		

$\frac{3}{4} = 75\%$

Variations to complete:

Marvin and George completed a weather chart for April. Every day they recorded what the weather was like.

At the end they noticed that throughout April there were 6 days in which it rained.

What percentage of April was raining?

Space for working:

Marvin and George completed a weather chart for April. Every day they recorded what the weather was like.

At the end they noticed that throughout April there were 10 days in which it rained.

What percentage of April was raining?

Space for working: