

Approach: Independent

Year: 4 &amp; 8

Focus: Constructing a graph

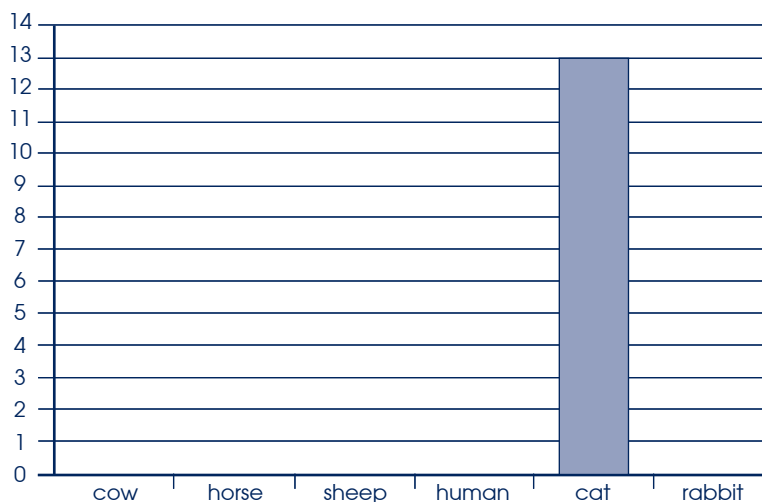
Resources: Bar graph in recording book, ruler

**Questions / instructions:**

Here are the number of hours animals sleep each day.

Finish the bar graph. Make sure it has all the information that a graph should have.

Animal	Hours (asleep)
Cow	7
Horse	5
Sheep	6
Human	8
Cat	13
Rabbit	10



		% responses		% responses	
		y4	y8	y4	y8
<b>Title:</b>	"Hours animals sleep"	3	18		
	"Zzz"	1	5		
	title includes "per day"	0	8		
<b>Bars correct:</b>		5	78	94	
		4	7	4	
		3	1	0	
		2	1	0	
		1	1	2	
<b>Vertical axis:</b>	e.g. "Hours of sleep per day"	1	1		
	e.g. "Hours of sleep"	2	24		
<b>Horizontal axis:</b>	e.g. "Animals"	2	26		
		<b>Total score:</b>		9-10	0
				7-8	2
				5-6	76
				3-4	8
				0-2	14
					7
					17
					71
					3
					2

**Commentary:**

The majority of students (94 percent of year 8 and 78 percent of year 4) constructed bars accurately to represent the data. Almost no year 4 students and about 20 percent of year 8 students provided reasonably appropriate titles for the graph or axes.