MathFLIX CHALLENGE

Proportions: Scale

Architects use proportions to build scale models so projects can be visualized before they're constructed full scale. Use a scale of 1 cm = 1 m to complete the chart below and draw lines representing the size of the animals listed. (Draw and label the lines on the back of this page).

Animal	Length	Proportion	Length of Scale Drawing
Great White Shark	6 m	$\frac{1\text{ cm}}{x\text{ cm}} = \frac{1\text{ m}}{6\text{ m}}$	6 cm
Orca Whale	9 m	$\frac{1\text{ cm}}{x\text{ cm}} = \frac{1\text{ cm}}{9\text{ m}}$	
White Shark	12 m	$\frac{1\text{ cm}}{x\text{ cm}} = \frac{1\text{ cm}}{12\text{ m}}$	
Blue Whale	24 m	$\frac{1\text{ cm}}{x\text{ cm}} = \frac{1\text{ cm}}{24\text{ m}}$	

The average basketball player is 2 meters tall. How many basketball players would equal the length of each animal listed above? Use stick figures (1 basketball player = 2m) to make a pictograph.

Great White Shark **Orca Whale** **White Shark** **Blue Whale**