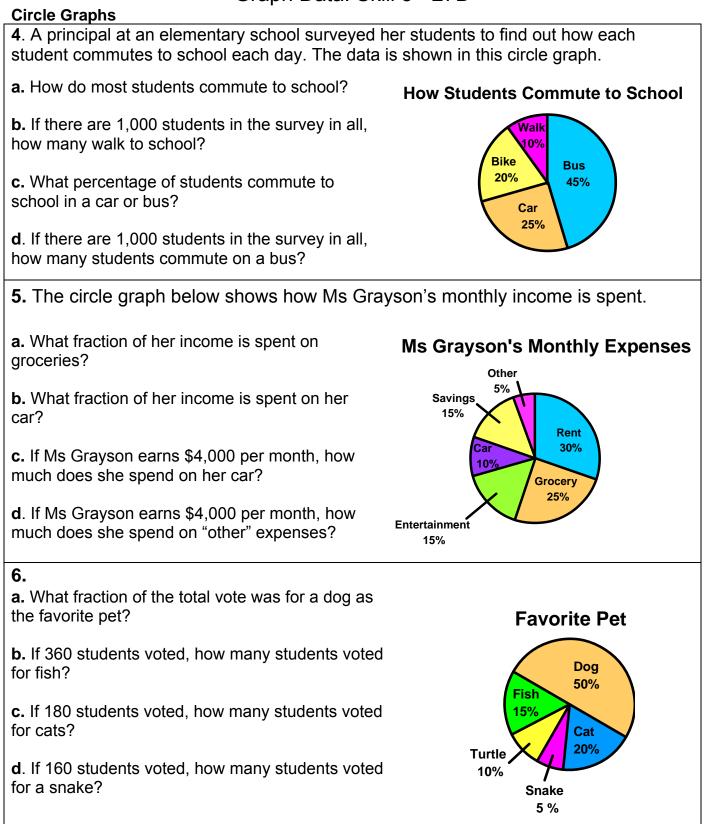


## Graph Data: Skill 5 - 27D



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## **Circle Graphs**

**Directions:** Make a circle graph using the data. The first one is done for you.

**1.** The table shows the results of a student survey about favorite kinds of pets.

		Percent of Total	Step 1				
	Pet	Votes	Multiply each percent by 360° to find each angle to draw in the circle graph.				
-	Dog	40%	Dog $0.40 \times 360^\circ = 144^\circ$				
	Cat	20%	Cat $0.20 \times 360^\circ = 72^\circ$				
	Parakeet	30%	Parakeet $0.30 \times 360^{\circ} = 108^{\circ}$				
	Lizard	10%	Lizard $0.10 \times 360^\circ = 36^\circ$				
step 1. .abel ea	r protractor to	Step 2 o draw each angle nd label the circle g e Pet".	Complete the circle graph as shown.				
		ne results of a stude kinds of sports. Percent of Total	Favorite Pet   3. The table shows the results of a student survey about favorite kinds of snacks.   Snack   Percent of Total				
	Football	Votes 30%	Chips 10%				
	Baseball	10%	Apple 40%				
	Soccer	50%	Carrot 30%				
	Swimming	10%	Orange 20%				

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Question 1		-						
a. If Tom's collection has 180 marbles in all, how many marbles are red?		b. What fraction of his marble collection is green?		c. What fraction of his marble collection is green and yellow?				
0.25 x 180 = 45		$\frac{25}{100} = \frac{1}{4}$		$\frac{50}{100} = \frac{1}{2}$				
Question 2			-					
		nat percentage of Mr. s income is spent on	<b>c.</b> Which two expenses equal half of all his expenses?		d. What percentage of his income is spent on food and medical expenses?			
rent 20%		rent and food		1	20% + 15% = 35%			
Question 3					<u> </u>			
how many fish are cherry how		here are 160 fish in all, many fish are black es and guppies?	<b>c.</b> Which group has more fish? molli		eon tetras and black ies nerry barbs and guppies			
				3. ne equa	either, the two groups are al.			
1111160 = 16		% + 40% = 65% 5 x 160 = 104 neith		er, the two groups are equal				
Question 4								
commute to school? stude		here are 1,000 ents in the survey in all, many walk to school?	<b>c.</b> What percentage of students commute to school in a car or bus?		<b>d</b> . If there are 1,000 students in the survey in all, how many students commute on a bus?			
bus	0.1 x 1,000 = 100		25% + 45% = 70%		0.45 x 1,000 = 450			
Question 5			L					
		nat fraction of her ne is spent on her car?	<b>c.</b> If Ms Grayson earns \$4,000 per month, how much does she spend on her car?		d. If Ms Grayson earns \$4,000 per month, how much does she spend on "other" expenses?			
$0.25 = \frac{25}{100} = \frac{1}{4} \qquad \qquad 0.1 = \frac{10}{100} = \frac{1}{10}$		$\frac{10}{100} = \frac{1}{10}$	0.1 x \$4000 = 400		0.05 x 4000 = 200			
Question 6								
		360 students voted, many students voted h?	<b>c.</b> If 180 students voted, how many students voted for cats?		<b>d</b> . If 160 students voted, how many students voted for a snake?			
100 2		x 360 = 54 0.2 x 180 = 36			0.05 x 160 = 8			

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