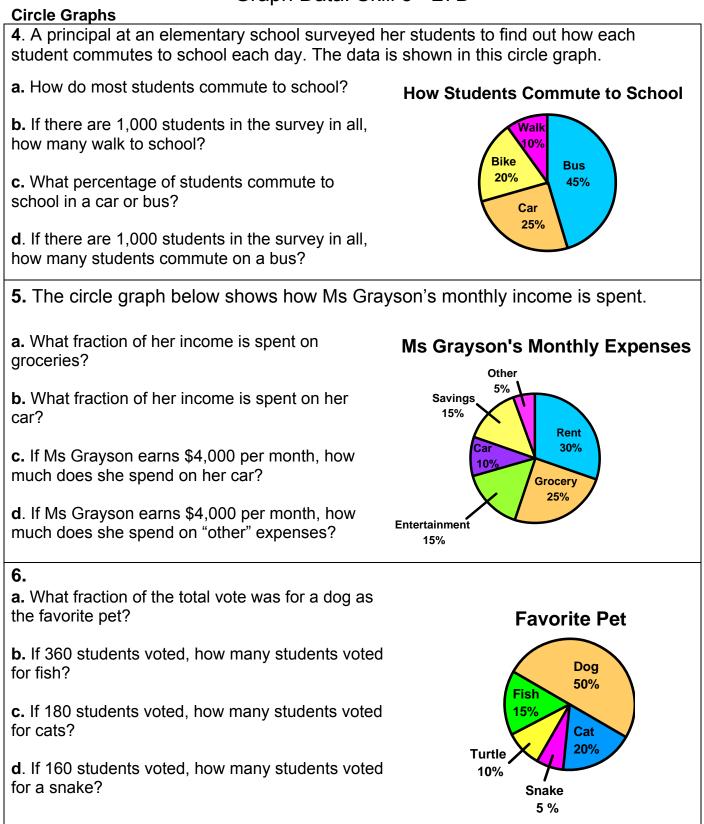


## Graph Data: Skill 5 - 27D



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## Graph Data: Skill 5 - 27D

## **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.<br>.abel ea | r protractor to | Step 2<br>o draw each angle<br>nd label the circle g<br>e Pet". | Complete the circle graph as shown.  |  |  |  |  |
|                     |                 | ne results of a stude<br>kinds of sports.<br>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<br>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<br>marbles in all, how many<br>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.<br>s income is spent on                        | <b>c.</b> Which two expenses equal half of all his expenses?                                  |  | d. What percentage of<br>his income is spent on<br>food and medical<br>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,<br>many fish are black<br>es and guppies?  | <b>c.</b> Which group<br>has more fish? molli   |  | eon tetras and black<br>ies<br>nerry barbs and guppies  |  |  |  |
|   |                   |  |   | 3. ne<br>equa  | either, the two groups are<br>al.   |  |  |  |
| 1111160 = 16  |                   | % + 40% = 65%<br>5 x 160 = 104 neith                                 |   | er, the two groups are equal                                   |   |  |  |  |
| Question 4  |                   |  |   |  |   |  |  |  |
| commute to school? stude  |                   | here are 1,000<br>ents in the survey in all,<br>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<br>students in the survey in<br>all, how many students<br>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<br>ne is spent on her car?                       | <b>c.</b> If Ms Grayson earns<br>\$4,000 per month, how<br>much does she spend<br>on her car? |  | d. If Ms Grayson earns<br>\$4,000 per month, how<br>much does she spend<br>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,<br>many students voted<br>h?                     | <b>c.</b> If 180 students voted,<br>how many students<br>voted for cats?                      |  | <b>d</b> . If 160 students voted,<br>how many students<br>voted for a snake?                              |  |  |  |
| 100 2   |                   | x 360 = 54 0.2 x 180 = 36  |   |  | 0.05 x 160 = 8  |  |  |  |

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