Key Concept and Vocabulary

20%

40%

30%

10%

Circle Graphs

Percents add up to 100%.

Visual Model

72°

144°

108°

36°

Degrees add up to 360°.
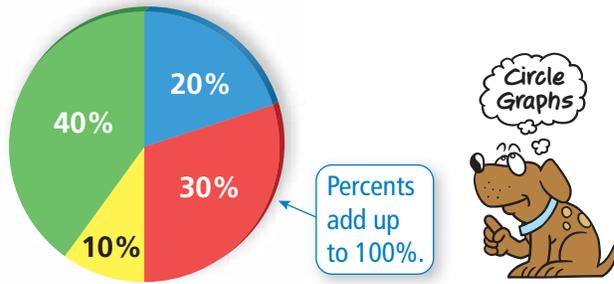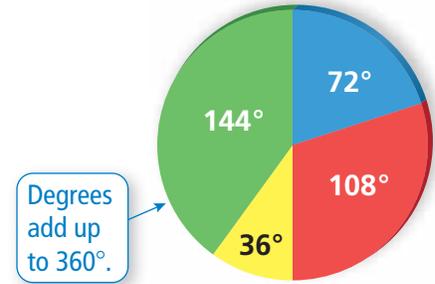
Skill Example

1. Data: 15, 15, 30

Angles:

$\frac{15}{60} = 25\% \longrightarrow 90°$

$\frac{30}{60} = 50\% \longrightarrow 180°$

25%

50%

25%
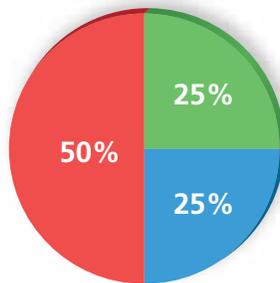
Application Example

2. 200 people were asked their favorite color. How many said blue?

20% of 200 = 40

⋮ 40 people said "blue."

20%

30%

15%

35%
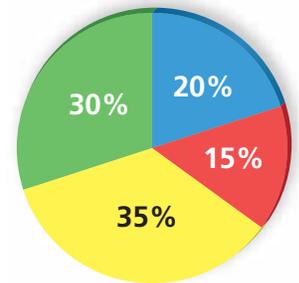
PRACTICE MAKES *PURR*-FECT™

Check your answers at BigIdeasMath.com.

Draw a circle graph for the data. Label each part of the graph.

3. Favorite Pet: dog 9, cat 5, fish 3, bird 1

cat 28%

dog 50%

fish 17%

bird 5%
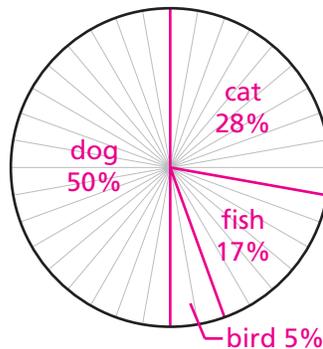
4. Favorite Day: Friday 9, Saturday 12, Sunday 15

Friday 25%

Saturday 33%

Sunday 42%
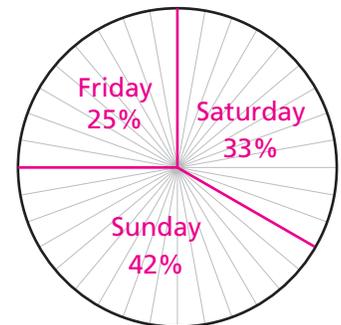
BUDGET A family is making a monthly budget. Its total take-home pay for a month is $2400.

5. How much is budgeted for food? __$792__

6. How much is budgeted for miscellaneous? __$504__

7. How much is budgeted for rent? __$600__

8. How much is budgeted for clothes? __$360__

9. How much is budgeted for savings? __$144__

Rent 25%

Misc 21%

Clothes 15%

Food 33%

Savings 6%