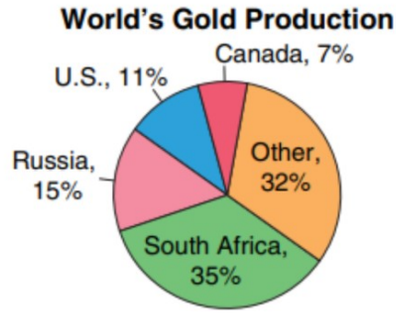
Homework Solutions

3. This graph shows the world's gold production for a particular year. In this year, the world's gold production was approximately 2300 t. About how much gold would have been produced in each country?

a) Canada **b)** South Africa



3. Canada 7%

7% of 2300

0.07 x 2300

161 t produced by Canada

South Africa 35%

35% of 2300

0.35 x 2300

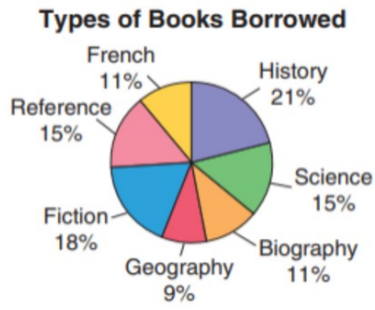
805 t produced by South Afric-

Homework Solutions

4. The school library budget to buy new books is $5000.
The librarian has this circle graph to show the types of books students borrowed in one year.

a) How much money should be spent on each type of book? How do you know?

b) Explain how you can check your answers in part a.



Homework Solutions

4. History 21% of 5000
0.21 x 5000
1050

Science 15% of 5000
10% of 5000 = 500
5% of 5000 250
15% 750

Biography 11% of 5000
10% = 500
1% = 50
11% 550

Geography 9% of 5000
(10% - 1%) 500 - 50 = 450

Fiction 18% of 5000
0.18 x 5000
900

Reference 15% of 5000 = 750

French 11% of 5000 = 550

Homework
Solutions

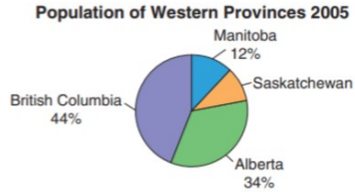
5. Assessment Focus This circle graph shows the populations of the 4 Western Canadian provinces in 2005.
The percent for Saskatchewan is not shown.

a) What percent of the population lived in Saskatchewan? How do you know?

b) List the provinces in order from least to greatest population.
How did the circle graph help you do this?

c) In 2005, the total population of the Western provinces was about 9 683 000 people. Calculate the population of each province, to the nearest thousand.

d) What else do you know from looking at the circle graph? Write as much as you can.



5. $44 + 34 + 12 = 90\%$

Sask $= 100 - 90$
$= 10\%$

They have to add to 100%

b) Least to Greatest → Look at the size of the pieces.

SK
MB
AB
BC

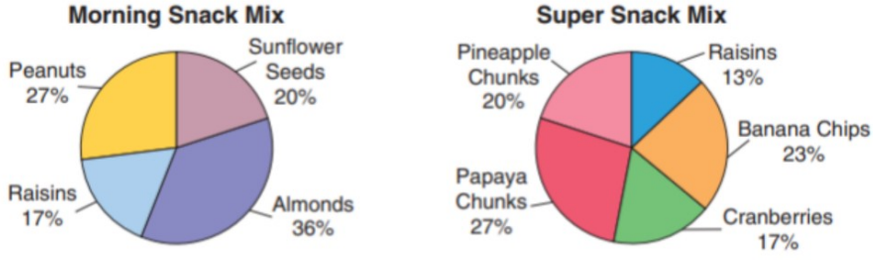
c) SK 10% of 9 683 000
968 300

MB 12% of 9 683 000
1 161 960

AB 34% of 9 683 000
3 292 220

BC 44% of 9 683 000
4 260 520

7. These circle graphs show the percent of ingredients in two 150-g samples of different snack mixes.



a) For each snack mix, calculate the mass, in grams, of each ingredient.

b) About what mass of raisins would you expect to find in a 300-g sample of each mix? What assumptions did you make?

Homework Solutions

Morn- 17% x 300

0.147 x 300 = 51

Super - 13% of 300

0.13 x 300 = 39g

7) Morning Snacks

a)

Peanuts	Sunflower	Almonds	Raisins
27% of 150	20% of 150	36% of 150	17% of 150
10% of 150 = 15	10% of 150 = 15	10% of 150 = 15	10% of 150 = 15
20% of 150 = 30	20% of 150 = 30 g	30% of 150 = 45	
	0.20 x 150 = 30g		
1% of 150 = 1.5		1% of 150 = 1.5	1% of 150 = 1.5
7% of 150 = 10.5		6% of 150 = 9	7% of 150 = 10.5
27% of 150 = 40.5 g		36% of 150 = 44 g	17% of 150 = 25.5 g
0.37 x 150 = 40.5g		0.36 x 150 = 44g	0.17 x 150 = 25.5g

Super Snack

a)

Paypapya	Pineapple	Raisins	Banana	Cranberries
27% of 150	20% of 150	13% of 150	23% of 150	17% of 150
10% of 150 = 15	10% of 150 = 15	10% of 150 = 15	10% of 150 = 15	10% of 150 = 15
20% of 150 = 30	20% of 150 = 30 g		20% of 150 = 30	
	0.20 x 150 = 30g			
1% of 150 = 1.5		1% of 150 = 1.5	1% of 150 = 1.5	1% of 150 = 1.5
7% of 150 = 10.5		3% of 150 = 4.5	3% of 150 = 4.5	7% of 150 = 10.5
27% of 150 = 40.5 g		13% of 150 = 19.5 g	27% of 150 = 34.5 g	17% of 150 = 25.5 g
0.37 x 150 = 40.5g		0.13 x 150 = 19.5g	0.27 x 150 = 34.5g	0.17 x 150 = 25.5g