Garlic helps lower blood procledged? One of the most of An example of this is atherously build-up of fat on the artery you are about to see will he
When the arteries are clogg which the blood exerts too statistics to discover the po
IDENTIFYING THE RESEA
Read pp. 69, 83–84 in your stud
1 le blood a compressible

BLOOD PRESSURE

Name:

Group:	Date:

CONCEPTS:

STUDENT BOOK: Chapter 3, pp. 69, 83-84

INCOMPRESSIBLE FLUID **PRESSURE**

METHOD:

EMPIRICAL

ressure in the arteries. But how exactly do the arteries become familiar culprits is a high ratio of fat, including cholesterol, in the blood. osclerosis, a disease of the circulatory system characterized by the walls and loss of the arteries' natural elasticity. The demonstration elp you visualize the effects of atherosclerosis in an artery.

ged in this way, a person may develop hypertension, a condition in much pressure on the artery walls. We can collect data and produce ppulation distribution of people with high blood pressure.

RCH SUBJECT

lent book for help in answering the following questions.

1.	Is blood a compressible or incompressible fluid? What are the characteristics of this fluid?
2.	Which instrument can be used to measure a person's arterial pressure (pressure exerted by blood inside the arteries)?
3.	What units are used to measure arterial pressure?
4.	Beyond what reading does arterial pressure exceed normal average pressure?

5.	What enables fluids to circulate within the cardiovascular system?
6.	Name a factor that may clog the arteries.
7.	What are the consequences of clogged arteries?

Group:

PLANNING YOUR RESEARCH

Name:

8. Carefully examine the table below before answering the questions that follow.

High blood pressure in Canada

	Total	With hi blood pre	_	Without blood pres		Undecla	red*
		No.	%	No.	%	No.	%
12-19 years	3 353 635	16 093	0.5	3 318 688	99.0	18 855	0.6
Males Females	1 716 269 1 637 366	6 072 10 021	0.4 0.6	1 697 811 1 620 877	98.9 99.0	12 387 6 468	0.7 0.4
20-34 years	6 422 774	162 031	2.5	6 248 499	97.3	12 245	0.2
Males Females	3 211 070 3 211 704	98 594 63 437	3.1 2.0	3 101 389 3 147 110	96.6 98.0	11 088 -	0.3 -
35-44 years	5 087 627	333 475	6.6	4 744 466	93.3	9 686	0.2
Males Females	2 573 924 2 513 703	188 927 144 548	7.3 5.8	2 379 736 2 364 730	92.5 94.1	5 261 -	0.2 -
45-64 years	8 339 620	1 808 138	21.7	6 516 109	78.1	15 372	0.2
Males Females	4 122 741 4 216 879	908 424 899 714	22.0 21.3	3 203 400 3 312 709	77.7 78.9	10 916 4 456	0.3 0.1
65 years and over	3 928 309	1 732 879	44.1	2 185 875	55.6	9 555	0.2
Males Females	1 747 908 2 180 401	688 336 1 044 543	39.4 47.9	1 055 701 1 130 174	60.4 51.8	3 871 5 684	0.2 0.3
Total 12 years and over	27 131 965	4 052 616	14.9	23 013 637	84.8	65 713	0.2
Males	13 371 912	1 890 353	14.1	11 438 037	85.5	43 523	0.3
Females	13 760 053	2 162 263	15.7	11 575 600	84.1	22 190	0.2

^{*}Undeclared: the blood pressure of these subjects was not taken and it is therefore not known whether they have high blood pressure. These data are merely indicative and provided to arrive at the figure of 100 percent. They are to be disregarded in any analysis of the data.

Source: adapted from the Statistics Canada table Canadian Community Health Survey (2005).

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Nam	e: Group: Date:
9.	What variables were used to gather the data for this table?
10.	What types of results does this table give?
11.	What can we study through this statistical table?
COI	NDUCTING YOUR RESEARCH
12.	According to this table, what is the total percentage of Canadians aged 12 years and more who suffer from hypertension?
13.	According to this table, which age group has the greatest percentage of hypertension?
14.	According to this table, which age group has the lowest percentage of hypertension?
15.	What is the relationship between age and percentage for subjects with hypertension?

