Name _____ Date _____ Class _____

Ready to Go On? Quiz

6-1 Percents
Write each percent as a fraction in simplest form.

1. 7% _____   **2.** 52% _____   **3.** 4% _____   **4.** 16% _____

5. 32% _____   **6.** 70% _____   **7.** 49% _____   **8.** 15% _____

Write each percent as a decimal.

9. 14% _____   **10.** 80% _____   **11.** 63% _____   **12.** 3% _____

6-2 Fractions, Decimals, and Percents
Write each decimal as a percent.

13. 0.33 _____   **14.** 0.91 _____   **15.** 0.2222 _____   **16.** 0.03 _____

Write each fraction as a percent. Round to the nearest tenth of a percent, if necessary.

17. $\frac{11}{12}$ _____   **18.** $\frac{23}{47}$ _____   **19.** $\frac{1}{9}$ _____   **20.** $\frac{17}{38}$ _____

6-3 Estimate with Percents
Estimate.

21. 21% of 89   **22.** 15% of 77   **23.** 21% of 78   **24.** 37% of 98

_____   _____   _____   _____

25. Carlos bought a new bicycle for $189.00. State sales tax
is 8%. About how much tax does he have to pay?   _____

Holt Mathematics

Name _____ Date _____ Class _____

6-4 Percent of a Number

Find the percent of each number. Round to the nearest tenth, if necessary.

26. 38% of 45   **27.** 51% of 200   **28.** 53% of 100   **29.** 3% of 40

_____   _____   _____   _____

30. 99% of 98   **31.** 125% of 97   **32.** 80% of 235   **33.** 17% of 87

_____   _____   _____   _____

34. Students who show their school I.D. get a 20% discount
at the local movie theater on Saturday afternoons. Tristan
saw a movie for $9.50. Find the amount of the discount.   _____

35. Students receive a 15% discount at the town's bookstore.
Jo bought books which totaled $19.95. What discount did
she receive?   _____

6-5 Solving Percent Problems

Solve. Round to the nearest tenth, if necessary.

36. 13 is what percent of 200? _____   **37.** 11 is 55% of what number? _____

38. 88 is 25% of what number? _____   **39.** 9 is what percent of 87? _____

40. If Juan left a tip of $2.00 on his lunch bill of $12.50,
what percent did he leave for a tip?   _____

41. 88% of Ms. Harper's 25 students bought school pictures.
How many students bought pictures?   _____

42. A jacket is on sale at the mall. The regular price is $85
and it is on sale for 20% off. What is the sale price of
the jacket?   _____

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SECTION 6B Ready to Go On? Quiz

6-6 Percent of Change
Find each percent of change. Round answers to the nearest tenth of a percent, if necessary.

1. 23 is decreased to 13

2. 91 is decreased to 83

_____

_____

3. 60 is increased to 75

4. 211 is increased to 413

_____

_____

Use the table for Exercises 5–8.

When customers purchase a contract for standard cable TV, providers may sell them a television at a reduced price. Prices for TVs from Capable Cable are listed in the table.

Capable Cable Service

Regular Price	With 3-year Contract
$199	$179
$289	$250
$400	$350
$525	$450
$700	$600

5. Find the percent discount on the $199 TV with a 3-year contract. _____

6. Find the percent discount on the $400 TV with a 3-year contract. _____

7. Find the percent discount on the $700 TV with a 3-year contract. _____

8. What happens to the percent discount that Capable Cable gives on its televisions as the price of the televisions increases? _____

9. Marco is lifting weights because he wants to increase his strength. He has increased the weights he uses from 15 lb to 18 lb. What is the percent of change in his weights? _____

10. Tamara's bowling ball is too heavy and it is affecting her bowling score. She switches from a 12-pound ball to an 8-pound ball. What is the percent of change in the weight of her bowling ball? _____

Holt Mathematics

SECTION 6B **Ready to Go On? Quiz** continued

6-7 Simple Interest
Find each missing value.

11. $I =$ _____, $p = \$600$, $r = 5\%$, $t = 2$ years

12. $I =$ _____, $p = \$300$, $r = 4\%$, $t = 1$ year

13. $I = \$33.12$, $p =$ _____, $r = 4\%$, $t = 3$ years

14. $I = \$37.50$, $p =$ _____, $r = 5\%$, $t = 9$ months

15. $I = \$150$, $p = \$1500$, $r =$ _____, $t = 5$ years

16. $I = \$51.00$, $p = \$340$, $r =$ _____, $t = 2$ years

17. $I = \$126$, $p = \$700$, $r = 6\%$, $t =$ _____

18. $I = \$450$, $p = \$2000$, $r = 4.5\%$, $t =$ _____

19. Vicki wants to deposit $12,000 in an account that earns
4.5% simple interest so she will have $15,000 when she
starts college. How long will it take her to reach $15,000? _____

20. Julie has $400 she is planning on putting in the bank.
Bank A offers an interest rate of 3.5%. Bank B offers
3% interest and a $25 bonus at the end of the year.
Where should Julie put her money for the better deal? _____

21. Jeff deposited $530 at the beginning of the year. It grew
to $556 by the end of the year. What was the approximate
interest rate? _____

22. Jeremy deposited some money in the bank 3 years ago
at a simple interest rate of 3.5%. He has earned $57 in
interest. About how much money did he deposit? _____

23. Kassandra deposited $40 in an account with a 4% interest
rate 4 years ago. How much interest has she earned? _____

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