

* CALCULATORS OK *

3-7 Practice

*** ALL WORK ON LOOSE LEAF ***

Percent of Change

* START WITH PROBLEM # 2 *

State whether each percent of change is a percent of increase or a percent of decrease. Then find each percent of change. Round to the nearest whole percent.

EX 1. original: 18 %
 new: 10

$$p.c. = \frac{\text{change}}{\text{orig.}} \cdot 100$$
 so $\frac{8}{18} \cdot 100 = (.44)(100) = 44.4 = \boxed{44\%}$

Handwritten note: 18 - 10 = 8 is change

2. original: 140
 new: 160

3. original: 200
 new: 320

4. original: 10
 new: 25

5. original: 76
 new: 60

6. original: 128
 new: 120

7. original: 15
 new: 35.5

8. original: 98.6
 new: 64

9. original: 58.8
 new: 65.7

Find the total price of each item.

10. concrete blocks: \$95.00
 tax: 6%

11. crib: \$240.00
 tax: 6.5%

12. jacket: \$125.00
 tax: 5.5%

13. class ring: \$325.00
 tax: 6%

14. blanket: \$24.99
 tax: 7%

15. kite: \$18.90
 tax: 5%

Find the discounted price of each item.

16. dry cleaning: \$25.00
 discount: 15%

17. computer game: \$49.99
 discount: 25%

18. luggage: \$185.00
 discount: 30%

19. stationery: \$12.95
 discount: 10%

20. prescription glasses: \$149
 discount: 20%

21. pair of shorts: \$24.99
 discount: 45%

Find the final price of each item.

22. television: \$375.00
 discount: 25%
 tax: 6%

23. DVD player: \$269.00
 discount: 20%
 tax: 7%

24. printer: \$255.00
 discount: 30%
 tax: 5.5%

25. **INVESTMENTS** The price per share of an internet-related stock decreased from \$90 per share to \$36 per share early in 2001. By what percent did the price of the stock decrease?

26. **HEATING COSTS** Customers of a utility company received notices in their monthly bills that heating costs for the average customer had increased 125% over last year because of an unusually severe winter. In January of last year, the Garcia's paid \$120 for heating. What should they expect to pay this January if their bill increased by 125%?