Name _____ Date _____

5.4 Puzzle Time

Why Did The Picture Go To Jail?

Write the letter of each answer in the box containing the exercise number.

Find the new amount.

1. 42 customers increased by 50%
   $42 \cdot 0.5 = 21 + 42 = 63$
2. 70 pennies decreased by 20%
   $70 \cdot 0.2 = 14 - 70 = 56$
3. 30 inches increased by 30%
   $30 \cdot 0.3 = 9 + 30 = 39$
4. 125 pounds decreased by 4%
   $125 \cdot 0.04 = 5 - 125 = 120$
5. 15 acres decreased by 80%
   $15 \cdot 0.8 = 12 - 15 = 3$
6. 12 stamps increased by 125%
   $12 \cdot 1.25 = 15 + 12 = 27$
7. 68 days increased by 75%
   $68 \cdot 0.75 = 51 + 68 = 119$
8. 440 miles decreased by 95%
   $440 \cdot 0.95 = 418 - 440 = 22$

Identify the percent of change as an *increase* or a *decrease*. Then find the percent of change.

9. 20 ounces to 25 ounces $\frac{25-20}{20} = 25\%$ in.

10. 10 hours to 6 hours $\frac{10-6}{10} = 40\%$ dec

11. 15 feet to 33 feet $\frac{33-15}{15} = 120\%$ in.

12. 80 books to 64 books $\frac{64-80}{80} = 20\%$ dec.

13. 64 minutes to 144 minutes $\frac{144-64}{64} = 125$ inc.

14. 16 skateboards to 2 skateboards $\frac{2-16}{16} = 87.5$ dec

15. 55 videos to 77 videos $\frac{77-55}{55} = 40\%$ inc.

16. 13.6 kilometers to 23.8 kilometers
    $\frac{23.8 - 13.6}{13.6} = 75\%$ inc

Answers for Exercises 1–8	
T. 3	O. 119
S. 120	D. 27
F. 22	E. 56
M. 39	Y. 63

Answers for Exercises 9–16

O. 40% increase	
B. 87.5% decrease	
I. 20% decrease	
R. 25% increase	
E. 75% increase	
M. 120% increase	
D. 40% decrease	
A. 125% increase	

4	15	11	2	14	7	10	1		8	9	13	3	16	6		12	5
S	O	M	E	B	O	D	Y		F	R	A	M	E	D		I	T