7-5 Using Percent Equations

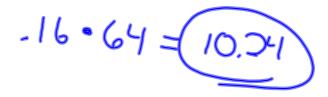
Fill in the table:

| | Fraction | Percent | Decimal |
|-----|------------------|---------|---------|
| | 35 7 100 = 20 | 35% | .35 |
| (3) | 8/12/8/18/18 | 72% | .72 |
| 3 | 4 15 | 26.5% | .26 |

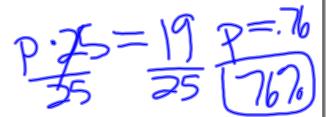
Ex. 1 Find 38% of 22.



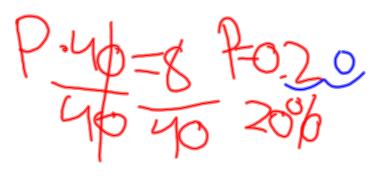
Find 16% of 64



Ex. 2 19 is what percent of 25?



8 is what percent of 40?



Ex. 3 84 is 16% of what number?

$$\frac{84}{.16} = .16 \times \times = 525$$

16 is 25% of what number?

Ex. 4 Stan wants to buy a cell phone that costs \$180. If 7% sales tax is added, what is the total cost?

what is
$$7\% \text{ of } 180?$$

$$.07 \cdot 180 = $12.60$$

$$$192.60$$

Tiffany is buying a T.V. that costs \$395. If 5% sales tax is added, what is the total cost?

Ex. 5 Mr. Ebert bought a DVD player for \$97.19 including tax. The sticker price was \$89.99. What percent sales tax did he pay?

97.19 - 89.99 = 01.20 7.20 is what percent of 89.99? $7.20 = \times .89.99 \times = 0.08 = 87$

Mrs. Lee bought a blender for \$47.70 including tax. The original price of the mixer was \$45. What percent sales tax did she pay?

 $2.70 = P \cdot 45 P = 0.06 = 670$

Homework

p.360 #1-8