

Percentage Word Problem Worksheet

1. A school district's property tax rate rises from 2.5% to 2.7% to cover a \$300,000 budget deficit (shortage of money). What is the value of the property in the school district to the nearest dollar? (Note: Property is assessed at 100% of its value.)

2. Jake's older brother, Sam, has a choice of two summer jobs. He can either work at an electronics store or at the school's bus garage. The electronics store would pay him to work 15 hours per week. He would make \$8 per hour plus a 2% commission on his electronics sales. At the school's bus garage, Sam could earn \$300 per week working 15 hours cleaning buses. Sam wants to take the job that pays him the most. How much in electronics would Sam have to sell for the job at the electronics store to be the better choice for his summer job

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Let W represent the worth of the property in the district, in dollars.

$$300,000 = 0.002W$$

$$300,000 \left(\frac{1}{0.002} \right) = 0.002 \left(\frac{1}{0.002} \right) W$$

$$150,000,000 = W$$

The property is worth \$150,000,000.

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Let S represent the amount, in dollars, sold in electronics.

$$300 < 8(15) + 0.02(S)$$

$$300 < 120 + 0.02S$$

$$180 < 0.02S$$

$$180 \left(\frac{1}{0.02} \right) < 0.02 \left(\frac{1}{0.02} \right) S$$

$$9,000 < S$$

Sam would have to sell more than \$9,000 in electronics for the electronics store to be the better choice.

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