

Buying Concert Tickets

Your favorite group is coming to town for a concert next month. At the door, the cost of one ticket is \$30 plus 5% tax.

1. What will it cost for 2 tickets including tax?
2. What will 15 tickets cost, including tax?
3. When you buy advance tickets, you get a 12% discount.
What will 15 tickets cost, including tax, if you buy them in advance?
4. Which is the better buy, buying 10 tickets at the door or buying 12 tickets in advance? Justify your answer.

Buying Concert Tickets Answer Key

Your favorite group is coming to town for a concert next month. At the door, the cost of one ticket is \$30 plus 5% tax.

1. What will it cost for 2 tickets including tax?

$$\$30 \times 2 = \$60$$

$$\$60 \times .05 = \$3.00$$

$$\$60 + \$3.00 = \$63.00$$

2. What will 15 tickets cost, including tax?

$$\$30 \times 15 = \$450$$

$$\$450 \times .05 = \$22.50$$

$$\$450 + \$22.50 = \$472.50$$

3. When you buy advance tickets, you get a 12% discount.

What will 15 tickets cost, including tax, if you buy them in advance?

$$\$30 \times 15 = \$450$$

$$\$450 \times .12 = \$54.00$$

$$\$450 - \$54.00 = \$396.00$$

$$\$396 \times .05 = \$19.80$$

$$\$396 + \$19.80 = \$415.80$$

4. Which is the better buy, buying 10 tickets at the door or buying 12 tickets in advance? Justify your answer.

$$10 \times \$30 = \$300$$

$$\$300 \times .05 = \$15$$

$$\$300 + \$15 = \$315$$

$$12 \times \$30 = \$360$$

$$\$360 \times .12 = \$43.20$$

$$\$360 - \$43.20 = \$316.80$$

$$\$316.80 \times .05 = \$15.84$$

$$\$316.80 + \$15.84 = \$332.64$$