

17) $4a = \frac{1}{2}$

18) $\frac{3}{4}b = 1\frac{1}{2}$

19) Jon poured $1\frac{1}{2}$ oz. of lemon juice into a salad. He has $5\frac{1}{2}$ oz.

lemon juice left in the bottle. How many ounces of lemon juice were in the bottle before he poured some onto the salad?

Use the table to write each ratio.

- 20) music programs to art programs
21) arcade games to entire collection
22) entire collection to educational games

Educational games	16
Word processing	2
Art programs	10
Arcade games	10
Music programs	3

23) Alice and Wagner ordered a pizza to be delivered. The total bill was \$12.15. They want to give the delivery person a tip that is 20% of the bill. About how much should the tip be?

24) Jackie has \$32.50 to buy a new pair of jeans. The pair she likes costs \$38 but is marked "20% off ticketed price." The sales tax rate is 5%. Does Jackie have enough money to buy the jeans? Explain.

To find the percent one number is of another, use this proportion:

$$\frac{\%}{100} = \frac{\text{is}}{\text{of}}$$

Because you are looking for 45% of 420, 45 replaces the percent sign and 420 replaces "of." The first denominator, 100, always stays the same. The "is" part is what you have been asked to find.

25) Members of the drama club sold T-shirts for their upcoming musical. Of the 80 T-shirts sold, 55% were size medium. How many of the T-shirts sold were size medium?

26) Tamara collects porcelain dolls. Of the 24 dolls that she has, 25% have blond hair. How many of her dolls have blond hair?