

Review of Tax and Tip

KEY

1. $5\% + 20\% = 25\%$

Bill including tax+tip = \$24.00

100% → bill

So $100\% + 25\%$ is what you are paying

bill amount not including tax & tip → $\frac{125}{100} = \frac{24}{x}$

$$2400 = 125x$$
$$\frac{2400}{125} = \frac{125x}{125}$$

$$19.20 = x$$

The original cost of the pizza is \$19.20

2. a. 15% tip + 100% bill

115%

Bill including tip = \$56

bill amount not including tip → $\frac{115}{100} = \frac{56}{x}$

$$\frac{115}{100} = \frac{56}{x}$$

$$1.15x = 56$$

b. $\boxed{\$48.70}$

3. $23.45 \times \frac{8}{100}$

$$23.45 \times 0.08$$

tax = \$1.876 round to \$1.88

$$= 23.45 + 1.88$$

(bill) (tax)

New total = \$25.33

20% tip on new total

$$\frac{20}{100} \times 25.33 = 5.066$$

↳ round to \$5.07

Price after tax & tip =

$$25.33 + 5.07 = \boxed{\$30.4}$$