

6. Julia wants to buy a pair of jeans that costs \$49.99. What is the cost of the jeans before tax if she uses a coupon for 25% off?

⑥ Discount $\frac{25}{100} = \frac{x}{49.99}$
 $\frac{100x}{100} = \frac{1249.75}{100}$ $x = \$12.50$

7. Matt finds a shirt for \$14.50 that he wants to buy. How much will he pay if he waits to shop on 15% off Wednesdays?

⑦ Discount $\frac{15}{100} = \frac{x}{14.50}$ 14.50
Total Price $\frac{100x}{100} = \frac{217.50}{100}$ 4
 $- 2.18$
 $\$12.32$
 $x = \$2.18$

8. Sarah has twenty-five dollars in her wallet. She needs to decide if she can buy a new hat that originally cost \$28.00, but is on sale today during a 10% off sale. Will she have enough money to buy the hat if the tax is 5%?

⑧ discount then tax!
 $\frac{10}{100} = \frac{x}{28} = \frac{100x}{100} = \frac{2.80}{100}$ $x = 2.80$
 $28 - 2.80 = 25.20$
 New tax $\frac{5}{100} = \frac{x}{25.20}$

$\frac{100x}{100} = \frac{1.26}{100}$ $x = 1.26$
 $25.20 + 1.26 = \$26.46$

9. Joe used a coupon and paid \$160 (before tax) for an item that was originally \$200. What percent discount did Joe have on his coupon?

⑨ $200 - 160 = 40$
 $\frac{40}{200} = \frac{x}{100}$ $\frac{200x}{200} = \frac{4000}{200}$
 $x = 20\%$

10. Jerry needs to buy a new basketball goal to continue to practice for try-outs. He saw a 10% off coupon for Sport's Authority if he spends \$75. The basketball goal at Sport's Authority is \$78. There is also a basketball goal for sale at Target for \$68. If Jerry wants to spend the least amount of money, should he go to Sport's Authority or Target?

⑩ Target

\$168

Cheaper

Sport's Authority

$\frac{10}{100} = \frac{x}{78}$

$\frac{100x}{100} = \frac{7.80}{100}$

$x = 7.80$

$78 - 7.80 =$

71.80