

**Percentage Problems for SAT**

**1.** If the price of gasoline increases by 25 % and Ron intends to spend only 15 % more on gasoline, by how much % should he reduce the quantity of petrol that he buys?

- A) 6                      B) 7.5                      C) 8                      D) 9                      E) 10

**2.** The wages earned by Robin is 30 % more than that earned by Erica. The wages earned by Charles is 60 % more than that earned by Erica. How much % is the wages earned by Charles more than that earned by Robin?

- A) 22                      B) 23                      C) 25                      D) 28                      E) 30

**3.** In an election contested by two parties, Party D secured 12 % of the total votes more than Party R. If party R got 132,000 votes, by how many votes did it lose the election?

- A) 15,000                      B) 16,000                      C) 17,000                      D) 18,000                      E) 20,000

**4.** The difference between the value of a number increased by 12.5 % and the value of the original number decreased by 25 % is 30. What is the original number?

- A) 60                      B) 72                      C) 80                      D) 85                      E) 90

**5.** What is the % change in the area of a rectangle when its length increases by 10 % and its width decreases by 10 %?

- A) 1 %                      B) 2 %                      C) 3 %                      D) 4 %                      E) 5 %

6. The original price of a suit is \$ 200. The price increased 30 %, and after this increase, the store published a 30 % off coupon for a one-day sale. Given that the consumers who used the coupon on sale day were getting 30 % off the increased price, how much did these consumers pay for the suit?

- A) \$ 182                      B) \$ 191                      C) \$ 200                      D) \$ 209                      E) \$ 219

7. The profits of QRS company rose 10 % from March to April, then dropped 20 % from April to May, then rose 50 % from May to June. What was the percent increase for the whole quarter, from March to June?

- A) 15 %                      B) 32 %                      C) 40 %                      D) 62 %                      E) 80 %

8. Bert and Rebecca were looking at the price of a condominium. The price of the condominium was 80 % more than Bert had in savings, and separately, the same price was also 20 % more than Rebecca had in savings. What is the ratio of what Bert has in savings to what Rebecca has in savings.

- A) 1 : 4                      B) 4 : 1                      C) 2 : 3                      D) 3 : 2                      E) 3 : 4

9. Company KW is being sold, and both Company A and Company B were considering the purchase. The price of Company KW is 50 % more than Company A has in assets, and this same price is also 100 % more than Company B has in assets. If Companies A and B were to merge and combine their assets, the price of Company KW would be approximately what percent of these combined assets?

- A) 66 %                      B) 75 %                      C) 86 %                      D) 116 %                      E) % 150

10. There are 300 seniors at Morse High School, and 40 % of them have cars. Of the remaining grades (freshmen, sophomores, and juniors), only 10 % of them have cars. If 15 % of all the students at Morse have cars, how many students are in those other three lower grades?

- A) 600                      B) 900                      C) 1200                      D) 1350                      E) 1500

Answers: 1.C 2.B 3.D 4.C 5.A 6.A 7.C 8.A 9.C 10.E

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