

SHOW ALL WORK

1. Rick renovated his home. He made his bedroom 40% larger (length and width) than its original size. If the original dimensions were 144 inches by 168 inches, how big is his room now if measured in feet?

1. 12 ft x 14 ft
2. 16.8 ft x 19.6 ft
3. 4.8 ft x 5.6 ft
4. 201.6 ft x 235.2 ft

2. Maria paid \$28.00 for a jacket that was discounted by 30%. What was the original price of the jacket?

1. \$36.00
2. \$47.60
3. \$40.00
4. \$42.50

3. Derek received 6 job offers from the 15 interviews he did last month. Which ratio best describes the relationship between the number of jobs he was not offered and the number of jobs for which he interviewed?

1. 6/15
2. 15/6
3. 3/5
4. 2/3

4. Gordon purchased a television when his local electronics store had a sale. The television was offered at 30% off its original price of \$472. What was the sale price that Gordon paid?

1. \$141.60
2. \$225.70
3. \$305.30
4. \$330.40

5. Within a certain nursing program, 25% of the class wanted to work with infants, 60% of the class wanted to work with the elderly, 10% of the class wanted to assist general practitioners in private practices, and the rest were undecided. What fraction of the class wanted to work with the elderly?

1. 1/4
2. 1/10
3. 3/5
4. 1/20

6. Veronica has to create the holiday schedule for the neonatal unit at her hospital. She knows that 35% of the staff members will not be available because they are taking vacation days during the holiday. Of the remaining staff members who will be available, only 20% are certified to work in the neonatal unit. What percentage of the TOTAL staff is certified and available to work in the neonatal unit during the holiday?

1. 7%
2. 13%
3. 65%
4. 80%

7. A patient requires a 30% decrease in the dosage of his medication. His current dosage is 340 mg. What will his dosage be after the decrease?

1. 70
2. 238
3. 270
4. 340

8. A study about anorexia was conducted on 100 patients. Within that patient population 70% were women, and 10% of the men were overweight as children. How many male patients in the study were NOT overweight as children?

1. 3
2. 10
3. 27
4. 30

9. Susan is extremely excited about starting her first job as a nurse. Her gross annual salary is \$40,000. Susan contributes 10% of her salary before taxes to a retirement account. Then she pays 25% of her remaining salary in state and federal taxes. Finally, she pays \$30 per month for health insurance. What is Susan's annual take-home pay?

1. \$25640
2. \$25970
3. \$26640
4. \$26970

10. In order for a school to allow a vending machine to be placed next to the cafeteria, 65% of the school's population must ask for it. If 340 of the school's 650 students have requested the vending machines, how many more are needed to get the vending machines?

1. 75
2. 83
3. 89
4. 99