

PHCC-NV Apprenticeship Mathematics Examination

Name: _____

Date: _____

Social Security # _____

1. If your Army pay is \$52.00 a month, how much will you earn in a year? _____
2. Your grades on 5 tests were 80%, 90%, 70%, 60% and 50%. What is the average of your 5 grades? _____
3. A dealer bought 3 loads of coal weighing 6,242 lbs., 28,394 lbs., and 143,686 lbs. How much did he buy in all? _____
4. It takes 5 lbs. of cement to cover 10 square feet. How many lbs. of cement will be needed to cover a rectangular area 25 ft. by 10 ft.? _____
5. Two mechanists operating the same lathe, work 10 hours each on a day shift and on a night shift respectively. One man turns out 400 pieces an hour and the other, 600 pieces an hour. What will be the difference in their output at the end of 30 days? _____
6. If it takes 5 hours to do $\frac{2}{3}$ of a job, what is the total time to complete the job? _____

Find the decimal equivalent to the nearest thousandth of the following:

7. $\frac{3}{4}$ _____
8. $\frac{28}{32}$ _____
9. $\frac{56}{64}$ _____
10. $\frac{31}{32}$ _____
11. $\frac{7}{64}$ _____
12. Multiply .214 by .303 _____
13. Multiply .014 by .0064 _____
14. Find $12\frac{1}{2}\%$ of 96 men. _____
15. Find $\frac{1}{2}$ of 1% 190 tons. _____

16. 225 is 25% of what amount? _____
17. 120 is what percent of 240? _____
18. A truck carrying 6750 lbs. of lead weighed 9,000 lbs. What percent of the total weight was due to the weight of the truck? _____
19. What do discounts of 25%, 8%, and 5% amount to on a bill of \$300.00? _____
20. A plumber sells 100 sets of bathroom fixtures at \$165.00 per set. At 16% , what would his commission be? _____
21. A loss of \$13.50 on a washing machine represents 15% loss on the selling price. What is the selling price? _____
22. Find the square root of 2937.44 by the arithmetical method. _____
23. Find the volume of a rectangular solid 20 ft. wide, 28 ft. long and 16ft. high. _____
24. Find the area of a circle that has a radius of 12 inches. _____
25. A company marched 48 miles in 5 days. The first day they marched 12 miles, the second day they marched 9 miles, third day 7 miles and the forth day 9 miles. How many miles did they march the last day? _____
26. If an automobile travels 450 yards in 15 seconds, how many feet does it go in $\frac{1}{3}$ of a second?

27. How many tiles that are 9" x 9" will be necessary to floor a room measuring 35 feet by 20 feet? (Round off to the nearest tile.) _____
28. Add the following numbers: $4,585,285 + 792 + 73,214$. _____
29. 620.75 divided by .25 equals _____.
30. A 3" pipe has an inside diameter of 3.067" and an outside diameter of 3.5". What is the thickness of the wall? _____