Percentages Worksheet

What is a Percentage?

A percentage is a number or ratio expressed as a fraction of 100. The symbol for percent is **%**.

Examples:

- 25% = 25/100 = 0.25
- 50% = 50/100 = 0.50
- 75% = 75/100 = 0.75

Part A: Convert Percentages, Decimals, and Fractions

Convert each percentage to a decimal.

1. 15% = _____
2. 40% = _____
3. 125% = _____
4. 7% = _____
5. 85% = _____

Convert each decimal to a percentage.

6. 0.25 = _____%
7. 0.60 = _____ %
8. 1.20 = _____%
9. 0.08 = _____%
10. 0.95 = _____%

Convert each fraction to a percentage.

11. 1/2 = _____ %
12. 3/4 = _____%
13. 1/5 = _____ %
14. 9/10 = _____ %
15. 2/25 = _____ %

Part B: Find the Percentage - Find the indicated percentage of each number.

16. 25% of 40 = _____
17. 50% of 64 = _____
18. 10% of 90 = _____
19. 75% of 80 = _____
20. 20% of 150 = _____
21. 15% of 200 = _____
22. 5% of 60 = _____
23. 30% of 120 = _____
24. 40% of 250 = _____
25. 12% of 50 = _____

Part C: Find the Whole Number

26. 12 is 25% of what number? _____
27. 30 is 50% of what number? _____
28. 18 is 20% of what number? _____
29. 45 is 75% of what number? _____
30. 10 is 5% of what number?_____

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Part D: Percent Increase and Decrease

31. A shirt costs $20 and is discounted by 25%. How much is the discount?

    $_____

32. A video game costs $40 and increases in price by 10%. What is the increase?

    $_____

33. A bicycle costs $300 and is discounted by 15%. How much is the discount?

    $_____

34. A phone costs $500 and increases by 8%. What is the increase?

    $_____

35. A pair of shoes costs $80 and is discounted by 50%. What is the discount?

    $_____

Part E: Word Problems

36. A class has 24 students. If 75% of the students passed a test, how many students passed?

    _____ students

37. A store sold 200 items. If 15% were returned, how many items were returned?

    _____ items

38. A basketball player made 80% of 25 free throws. How many free throws did the player make?

    _____ free throws

39. A tank holds 500 gallons of water. It is 40% full. How many gallons of water are in the tank?

    _____ gallons

40. Sarah saved 30% of her $150 allowance. How much did she save?

    $_____

LIVEWORKSHEETS