

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:

- $25\% = 25/100 = 0.25$
 - $50\% = 50/100 = 0.50$
 - $75\% = 75/100 = 0.75$
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Part A: Convert Percentages, Decimals, and Fractions

Convert each percentage to a decimal.

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|-------------------|--------------------|-------------------|
| 1. $15\% =$ _____ | 3. $125\% =$ _____ | 5. $85\% =$ _____ |
| 2. $40\% =$ _____ | 4. $7\% =$ _____ | |

Convert each decimal to a percentage.

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

Convert each fraction to a percentage.

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|---------------------|----------------------|----------------------|
| 11. $1/2 =$ _____ % | 13. $1/5 =$ _____ % | 15. $2/25 =$ _____ % |
| 12. $3/4 =$ _____ % | 14. $9/10 =$ _____ % | |
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Part B: Find the Percentage - Find the indicated percentage of each number.

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|--------------------------|---------------------------|---------------------------|
| 16. 25% of 40 = _____ | 20. 20% of 150 = _____ | 24. 40% of 250 = _____ |
| 17. 50% of 64 = _____ | 21. 15% of 200 = _____ | 25. 12% of 50 = _____ |
| 18. 10% of 90 = _____ | 22. 5% of 60 = _____ | |
| 19. 75% of 80 = _____ | 23. 30% of 120 = _____ | |
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Part C: Find the Whole Number

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

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?

\$ _____
