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Introduction

Challenge Your Child is designed to provide a wide range of fun learning experiences for your youngster. Varied formats tap into all levels of cognition, from basic knowledge to more complex abilities such as comprehension, application, analysis, synthesis and evaluation. Encourage your child to think on all these levels by recalling, applying, organising and assessing learned material.

Take an active role in your child's learning. Guide your child through the activities in this book, focusing on those that are best suited to him or her. Reluctant readers may need help with directions in order to complete some activities. Use the activities as a springboard for further investigations. The level of interest you show will serve to increase your child's motivation.

You will see an important icon in this book that appears on pages that require adult permission, supervision or other assistance. Make sure your child understands the importance of asking for help to complete these activities.



The answers to activities, which are easily removable, are provided at the centre of this book for easy self-checking.

Age, Please



A 36-year-old man named Dwayne has four sons: Dean, Darryl, Dennis and Dwight. Use the facts to calculate the age of each boy.

Facts:

- Darryl is twice as old as Dennis.
- The sum of Dean and Dwight's ages equals Darryl's age.
- The sum of Dennis and Dwight's ages equals Dean's age.
- The sum of all four sons' ages is forty.



1. How old is each boy?

Dean _____ Darryl _____
Dennis _____ Dwight _____

2. In how many years will Darryl be exactly half his father's age?

3. In how many years will Dean be exactly half his father's age?



Brain Booster: Bob has two younger brothers. One is 2 years old and the other is 10 years old. The total ages of the three boys is 22. How can that be true?



What's Your Occupation?

A man and two women with the last names Brown, White and Green (not necessarily in that order) work at a hospital. One person is a cleaner, one is a nurse and one is a doctor. Read the facts and use the chart to determine the sex and occupation of each person.

Facts:

- The person named White is a cleaner or a doctor.
- The person named Green is a doctor and the person named Brown is a cleaner, or the man is named Brown.
- Green is not a nurse.

	Cleaner	Nurse	Doctor
White			
Brown			
Green			



Who is the man? _____



Brain Booster: If the second fact were changed to read, 'The person named Brown is a doctor and the person named Green is a cleaner, or the man is not named White', what are the occupations of the three people? With these facts, can you determine which person is the man?



Family Tree



Use the facts to establish how the people are related to each other.

Facts:

- A boy named Josh has only one sibling: a brother named Matt.
- Josh’s mother’s name is Marta and his father’s name is Leo.
- Josh’s father has no siblings. Josh’s mother has one brother named Felix.
- Josh has three cousins named Beth, Julian and Serena.
- Josh’s mother’s mother is named Marianne.
- Josh’s uncle’s father is named Herman.



1. What relation is Leo to Felix? _____
2. What relation is Matt to Serena? _____
3. What relation is Marianne to Serena? _____
4. What relation is Herman to Marianne? _____
5. What relation is Julian to Beth? _____
6. What relation is Matt to Herman? _____
7. What is Serena’s father’s mother’s name? _____
8. What is Leo’s nephew’s name? _____
9. Which females named have exactly one brother?

10. What relation is Josh to Herman’s son’s son? _____



Brain Booster: A woman took a man to a party. She told everyone she met, ‘This man’s mother is my mother’s only child’. What relation is the woman to the man?