

## AGE PROBLEMS

1. A man is 3 times as old as his son. The sum of their ages is 48 years. How old is the son?
2. A man is 3 times as old as his son. Four years ago the sum of their ages was 60 years. How old is the son?

Solution: Let  $x$  – son’s age now  
 Then  $3x$  = father’s age now

Now form a table.

	Age Now	Age four years ago
Son	$x$	$x - 4$
Father	$3x$	$3x - 4$

Therefore  $x - 4 + 3x - 4 = 60$   
 Complete the solution.

3. A is now 4 times as old as B. Five years ago the sum of their ages was 45 years. How old is each?
4. A is now 4 times as old as B. In 12 years A will be twice as old as B. How old is each?
5. A is now five times as old as B. In 10 years A will be three times as old as B. How old is each?
6. John’s age is 2 years more than twice Mary’s age, and the sum of their ages is 32 years. How old is each?

Solution: Let  $x$  = Mary’s age in years  
 $2x + 2$  = John’s age in years

$$3x + 2 = \text{the sum of their ages in years}$$

$$32 = \text{the sum of their ages in years}$$

$$3x + 2 = 32 \text{ etc.}$$

7. John is 5 years older than Winifred. Six years from now the sum of their ages will be 37 years. How old is each now?
8. A father is 5 years more than 4 times his son’s age. In 5 years he will be 3 times his son’s age then. How old is the son now?

