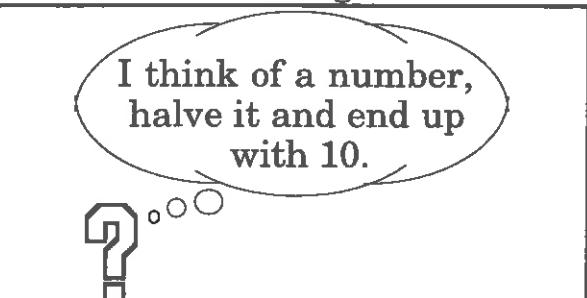


Chapter Nine.

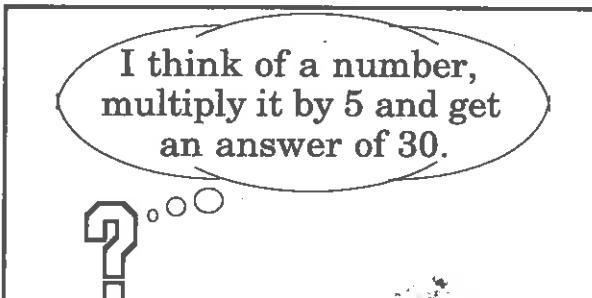
Equations.

Exercise 9A.

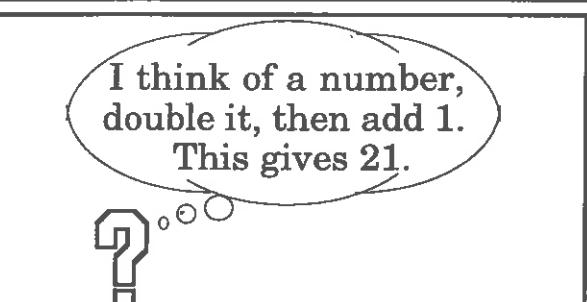
For each of the following find what "the number I think of" must be.

1. 

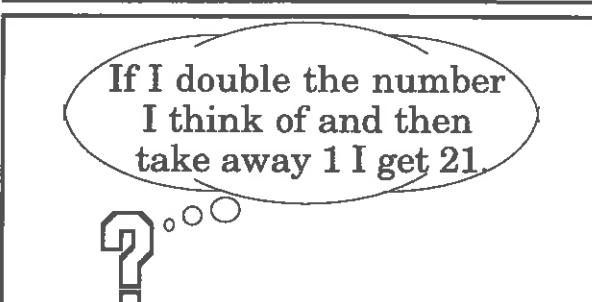
I think of a number,
halve it and end up
with 10.

?
2. 

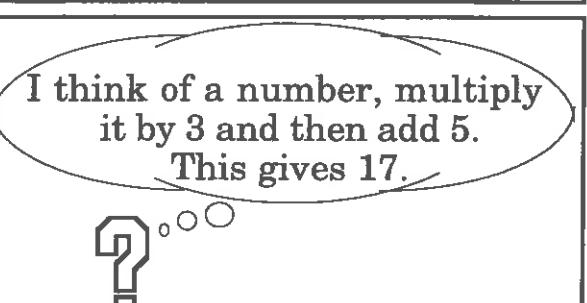
I think of a number,
multiply it by 5 and get
an answer of 30.

?
3. 

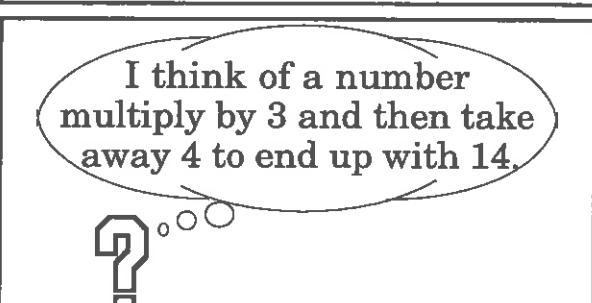
I think of a number,
double it, then add 1.
This gives 21.

?
4. 

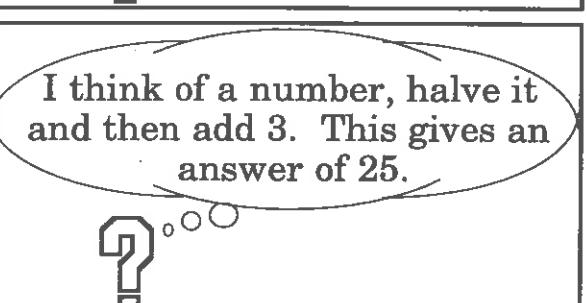
If I double the number
I think of and then
take away 1 I get 21.

?
5. 

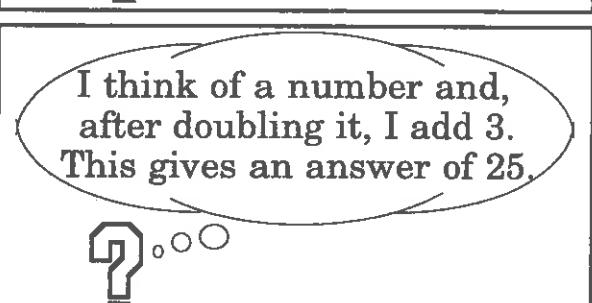
I think of a number, multiply
it by 3 and then add 5.
This gives 17.

?
6. 

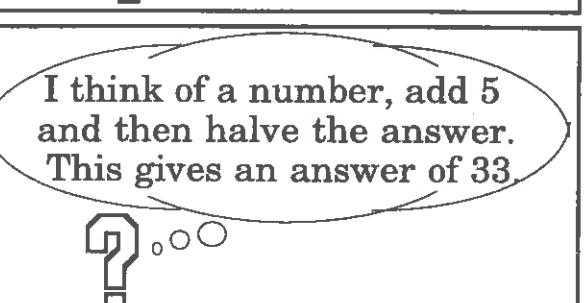
I think of a number
multiply by 3 and then take
away 4 to end up with 14.

?
7. 

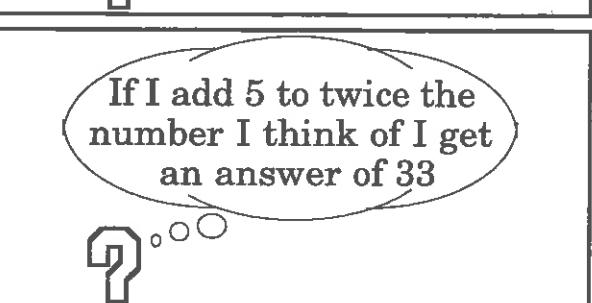
I think of a number, halve it
and then add 3. This gives an
answer of 25.

?
8. 

I think of a number and,
after doubling it, I add 3.
This gives an answer of 25.

?
9. 

I think of a number, add 5
and then halve the answer.
This gives an answer of 33.

?
10. 

If I add 5 to twice the
number I think of I get
an answer of 33.

?

Exercise 9B

1. If x represents some number which of the following must be twice x ?
 (a) $x + 2$ (b) $2 - x$ (c) $2x$ (d) $x \div 2$ (e) x^2
2. If n represents some number which of the following must be n multiplied by itself?
 (a) $n + 2$ (b) $2 - n$ (c) $2n$ (d) $n \div 2$ (e) n^2
3. If p represents a whole number which of the following must be the next whole number after p ?
 (a) $p + p$ (b) $p + 1$ (c) $2p$ (d) $p - 1$ (e) $1p$
4. If m represents some number which of the following must be half of m ?
 (a) $m + 0.5$ (b) $m \div 0.5$ (c) $m \times 0.5$ (d) $0.5m$ (e) $\frac{m}{2}$
5. If x represents some number which of the following must be four times x ?
 (a) $4x$ (b) x^4 (c) $x + 4$ (d) $x - 4$ (e) $4 \div x$
6. If y represents some number which of the following is 6 less than y ?
 (a) $y - 6$ (b) $6 - y$ (c) $6y$ (d) y (e) $y + 6$
7. If k represents some number which of the following is what is obtained when twice k is subtracted from 50?
 (a) $k + 50 - k$ (b) $50 - 2k$ (c) $2k - 50$ (d) $100k$ (e) $2k + 50$
8. If r represents some number which of the following must be 5 less than r ?
 (a) $5 - r$ (b) $r - 5$ (c) $5r$ (d) $r + 5$ (e) $5 + r$
9. If p represents some number which of the following must exceed twice p , by 7?
 (a) $7 - 2p$ (b) $2p - 7$ (c) $2p + 7$ (d) $7p + 2$ (e) $7p^2$
10. If n represents some number which of the following must be twice n ?
 (a) $0.5n$ (b) $0.5 + n$ (c) $\frac{n}{2}$ (d) $2n$ (e) $n \div 0.5$
11. If y represents a particular number which of the following will be what is obtained by multiplying y by 3 and then adding 5?
 (a) $3(y + 5)$ (b) $15y$ (c) $y + 3 + 5$ (d) $3y + 5$ (e) $5(y + 3)$
12. If n represents a particular number which of the following will be what is obtained by adding 5 to n and then multiplying the answer by 3?
 (a) $3(n + 5)$ (b) $15n$ (c) $n + 3 + 5$ (d) $3n + 5$ (e) $5(n + 3)$
13. If x represents a particular even number the next even number after x will be:
 (a) $2x$ (b) $x + 1$ (c) $x - 1$ (d) $x - 2$ (e) $x + 2$