

MP lab programs - 2

Subtraction

a)

. model small
. data
a db 30h
b db 20h
c db ?
. code

```
mov ax, @data  
mov ds, ax  
mov al, b  
sub al, b  
mov c, al  
mov ah, 4ch  
int 21h  
end.
```

b)

. model small
. data
a dw 1400
b dw 60
c dw ?
. code

```
mov ax, @data  
mov ds, ax  
mov ax, a  
sub ax, b  
mov c, ax  
mov ah, 4ch  
int 21h  
end.
```


2.

Multiplication

```

.model small
.data
num1 db 50h
num2 db 25h
res dw ?

```

```

.code
mov ax, @data
mov ds, ax
mov al, num1
mul num2
mov res, ax
mov ah, 4ch
int 21h
end

```

3.

division

```

.model small
.data
num1 dw 1250
num2 db 50
quot db ?
rem db ?

```

```

.code
mov ax, @data
mov ds, ax
mov al, num2
div num1
mov quot, al
mov rem, ah
mov ah, 4ch
int 21h
end

```