## Multiplication and Division Strategies

## A Little Bit More/A Little Bit Less

I can solve multiplication problems by taking some off or putting some on (Compensation)

## Exercise 1

What to do
Use the information given to you to derive the answer to a similar problem.

1) If $9 \times 20=180 \quad$ what is $9 \times 21$ ?
2) If $8 \times 30=240 \quad$ what is $8 \times 31$ ?
3) If $4 \times 40=160 \quad$ what is $4 \times 42$ ?
4) If $5 \times 50=250 \quad$ what is $5 \times 51$ ?
5) If $3 \times 60=180 \quad$ what is $3 \times 62$ ?
6) If $2 \times 70=140 \quad$ what is $2 \times 73$ ?
7) If $4 \times 80=320 \quad$ what is $4 \times 82$ ?
8) If $2 \times 90=180 \quad$ what is $2 \times 94$ ?

## Exercise 2

What to do
Use the information given to you to derive the answer to a similar problem.

1) If $9 \times 20=180$ what is $9 \times 19$ ?
2) If $8 \times 30=240 \quad$ what is $8 \times 29$ ?
3) If $7 \times 40=280 \quad$ what is $7 \times 39$ ?
4) If $5 \times 50=250$ what is $5 \times 49$ ?
5) If $3 \times 60=180 \quad$ what is $3 \times 58$ ?
6) If $2 \times 70=140$ what is $2 \times 67$ ?
7) If $4 \times 80=320$ what is $4 \times 78$ ?
8) If $2 \times 90=180 \quad$ what is $2 \times 86$ ?

## Exercise 3

## What to do

Use the information given to you to derive the answer to a similar problem.

1) If $9 \times 20=180 \quad$ what is $9 \times 22$ ?
2) If $7 \times 30=210 \quad$ what is $7 \times 32$ ?
3) If $5 \times 40=200 \quad$ what is $5 \times 43$ ?
4) If $4 \times 50=200 \quad$ what is $4 \times 51$ ?
5) If $3 \times 60=180 \quad$ what is $3 \times 61$ ?
6) If $6 \times 70=420 \quad$ what is $6 \times 73$ ?
7) If $6 \times 80=480 \quad$ what is $6 \times 81$ ?
8) If $8 \times 90=720 \quad$ what is $8 \times 92$ ?

## Exercise 4

## What to do

Use the information given to you to derive the answer to a similar problem.

1) If $9 \times 20=180 \quad$ what is $9 \times 18$ ?
2) If $7 \times 40=280 \quad$ what is $7 \times 37$ ?
3) If $5 \times 40=200 \quad$ what is $5 \times 38$ ?
4) If $4 \times 50=200 \quad$ what is $4 \times 47$ ?
5) If $3 \times 60=180 \quad$ what is $3 \times 56$ ?
6) If $6 \times 70=420 \quad$ what is $6 \times 67$ ?
7) If $6 \times 80=480 \quad$ what is $6 \times 78$ ?
8) If $8 \times 90=720 \quad$ what is $8 \times 88$ ?

## Exercise 5

What to do
Use the information given to you to derive the answer to a similar problem.

1) If $4 \times 200=800 \quad$ what is $4 \times 201$ ?
2) If $7 \times 300=2100 \quad$ what is $7 \times 301$ ?
3) If $8 \times 400=3200 \quad$ what is $8 \times 402$ ?
4) If $9 \times 500=4500$ what is $9 \times 501$ ?
5) If $5 \times 600=3000$ what is $5 \times 602$ ?
6) If $3 \times 700=2100 \quad$ what is $3 \times 704$ ?
7) If $2 \times 800=1600 \quad$ what is $2 \times 803$ ?
8) If $6 \times 900=5400 \quad$ what is $6 \times 903$ ?

## Exercise 6

## What to do

Use the information given to you to derive the answer to a similar problem.

1) If $4 \times 200=800 \quad$ what is $4 \times 199$ ?
2) If $7 \times 300=2100 \quad$ what is $7 \times 299$ ?
3) If $8 \times 400=3200 \quad$ what is $8 \times 398$ ?
4) If $9 \times 500=4500$
5) If $5 \times 600=3000$
6) If $3 \times 700=2100$
7) If $2 \times 800=1600$
8) If $6 \times 900=5400$
what is $9 \times 498$ ?
what is $5 \times 597$ ?
what is $3 \times 698$ ?
what is $2 \times 797 ?$
what is $6 \times 897$ ?

## Exercise 7

## What to do

Use the information given to you to derive the answer to a similar problem.

1) If $2 \times 25=50 \quad$ what is $2 \times 24$ ?
2) If $4 \times 25=100 \quad$ what is $4 \times 27$ ?
3) If $3 \times 15=45 \quad$ what is $3 \times 14$ ?
4) If $4 \times 15=60 \quad$ what is $4 \times 17$ ?
5) If $6 \times 15=90 \quad$ what is $6 \times 14$ ?
6) If $2 \times 25=50 \quad$ what is $2 \times 26$ ?
7) If $4 \times 25=100 \quad$ what is $4 \times 24$ ?
8) If $3 \times 15=45 \quad$ what is $3 \times 16$ ?
9) If $4 \times 15=60 \quad$ what is $4 \times 13$ ?
$10)$ If $6 \times 15=90 \quad$ what is $6 \times 17$ ?

## Exercise 8

What to do
Use the strategy add a little/subtract a little to solve these problems.

Julie wanted to find $3 \times 28$.

She knows that 28 is near 30 , so she used $3 \times 30=90$ and subtracted $3 \times 2=6$ to get the answer.

Julie recorded this in her maths book
$3 \times 28=90-6=84$
Using Julie's method find the answer to the following problems. Record your working like Julie did.

| 1) | $4 \times 19$ | $(2)$ | $3 \times 41$ | (3) | $5 \times 59$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 4) | $7 \times 52$ | $(5)$ | $4 \times 73$ | (6) | $3 \times 37$ |
| 7) | $6 \times 102$ | (8) | $5 \times 301$ | (9) | $4 \times 698$ |
| 10) | $3 \times 499$ | $(11)$ | $7 \times 602$ | $(12)$ | $9 \times 3999$ |

## Exercise 9

## What to do

Use the strategy add a little/subtract a little to make up five problems of your own. Give the answers, recording like in Julie's method.

## A Little Bit More/A Little Bit Less Answers

## Exercise 1

1) 189
(2) 248
(3) 168
(4) 255
2) 186
(6) 146
(7) 328
(8) 188

## Exercise 2

1) 171
(2) 232
(3) 273
(4) 245
2) 174
(6) 134
(7) 312
(8) 172

Exercise 3

1) 198
(2) 224
(3) 215
(4) 204
2) 183
(6) 438
(7) 486
(8) 736

Exercise 4

1) 162
(2) 259
(3) 190
(4) 188
2) 168
(6) 402
(7) 468
(8) 704

## Exercise 5

1) 804
(2) 2107
(3) 3216
(4) 4509
2) 3010
(6) 2112
(7) 1606
(8) 5418

## Exercise 6

1) 796
(2) 2093
(3) 3184
(4) 4482
2) 2985
(6) 2094
(7) 1594
(8) 5382

Exercise 7

1) 48
(2) 108
(3) 42
(4) 68
2) 84
(6) 52
(7) 96
(8) 48

## Exercise 8

1) $80-4=76$
(2) $120+3=123$ (3) $300-5=295$
2) $350+14=364$
(5) $280+12=292$
(6) $120-9=111$
3) $600+12=612$
(8) $1500+5=1505$
(9) $2800-8=2792$
4) $1500-3=1497$
(11) $4200+14=4214$
(12) $36000-9=35991$

## Exercise 9

Answers will vary.

