# **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)

# AC EA AA AM

## Exercise 1

What to do

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

1) If 
$$9 \times 20 = 180$$
 what is  $9 \times 21$ ?

2) If 
$$8 \times 30 = 240$$
 what is  $8 \times 31$ ?

3) If 
$$4 \times 40 = 160$$
 what is  $4 \times 42$ ?

4) If 
$$5 \times 50 = 250$$
 what is  $5 \times 51$ ?

5) If 
$$3 \times 60 = 180$$
 what is  $3 \times 62$ ?

6) If 
$$2 \times 70 = 140$$
 what is  $2 \times 73$ ?

7) If 
$$4 \times 80 = 320$$
 what is  $4 \times 82$ ?

8) If 
$$2 \times 90 = 180$$
 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 
$$8 \times 30 = 240$$
 what is  $8 \times 29$ ?

3) If 
$$7 \times 40 = 280$$
 what is  $7 \times 39$ ?

4) If 
$$5 \times 50 = 250$$
 what is  $5 \times 49$ ?

5) If 
$$3 \times 60 = 180$$
 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 
$$2 \times 90 = 180$$
 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 
$$9 \times 20 = 180$$
 what is  $9 \times 22$ ?

2) If 
$$7 \times 30 = 210$$
 what is  $7 \times 32$ ?

3) If 
$$5 \times 40 = 200$$
 what is  $5 \times 43$ ?

4) If 
$$4 \times 50 = 200$$
 what is  $4 \times 51$ ?

5) If 
$$3 \times 60 = 180$$
 what is  $3 \times 61$ ?

6) If 
$$6 \times 70 = 420$$
 what is  $6 \times 73$ ?

7) If 
$$6 \times 80 = 480$$
 what is  $6 \times 81$ ?

8) If 
$$8 \times 90 = 720$$
 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 
$$9 \times 20 = 180$$
 what is  $9 \times 18$ ?

2) If 
$$7 \times 40 = 280$$
 what is  $7 \times 37$ ?

3) If 
$$5 \times 40 = 200$$
 what is  $5 \times 38$ ?

4) If 
$$4 \times 50 = 200$$
 what is  $4 \times 47$ ?

5) If 
$$3 \times 60 = 180$$
 what is  $3 \times 56$ ?

6) If 
$$6 \times 70 = 420$$
 what is  $6 \times 67$ ?

7) If 
$$6 \times 80 = 480$$
 what is  $6 \times 78$ ?

8) If 
$$8 \times 90 = 720$$
 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 
$$4 \times 200 = 800$$
 what is  $4 \times 201$ ?

2) If 
$$7 \times 300 = 2100$$
 what is  $7 \times 301$ ?

3) If 
$$8 \times 400 = 3200$$
 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 
$$3 \times 700 = 2100$$
 what is  $3 \times 704$ ?

7) If 
$$2 \times 800 = 1600$$
 what is  $2 \times 803$ ?

8) If 
$$6 \times 900 = 5400$$
 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 
$$4 \times 200 = 800$$
 what is  $4 \times 199$ ?

2) If 
$$7 \times 300 = 2100$$
 what is  $7 \times 299$ ?

3) If 
$$8 \times 400 = 3200$$
 what is  $8 \times 398$ ?

4) If 
$$9 \times 500 = 4500$$
 what is  $9 \times 498$ ?

5) If 
$$5 \times 600 = 3000$$
 what is  $5 \times 597$ ?

6) If 
$$3 \times 700 = 2100$$
 what is  $3 \times 698$ ?

7) If 
$$2 \times 800 = 1600$$
 what is  $2 \times 797$ ?

8) If 
$$6 \times 900 = 5400$$
 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 
$$2 \times 25 = 50$$
 what is  $2 \times 24$ ?

2) If 
$$4 \times 25 = 100$$
 what is  $4 \times 27$ ?

3) If 
$$3 \times 15 = 45$$
 what is  $3 \times 14$ ?

4) If 
$$4 \times 15 = 60$$
 what is  $4 \times 17$ ?

5) If 
$$6 \times 15 = 90$$
 what is  $6 \times 14$ ?

6) If 
$$2 \times 25 = 50$$
 what is  $2 \times 26$ ?

7) If 
$$4 \times 25 = 100$$
 what is  $4 \times 24$ ?

8) If 
$$3 \times 15 = 45$$
 what is  $3 \times 16$ ?

9) If 
$$4 \times 15 = 60$$
 what is  $4 \times 13$ ?

10) If 
$$6 \times 15 = 90$$
 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)  $4 \times 19$ 

 $7 \times 52$ 

- (2)  $3 \times 41$
- (3)  $5 \times 59$

- 4)
- (5)
  - $4 \times 73$
- $(6) \qquad 3 \times 37$

- $7) \qquad 6 \times 102$
- (8)  $5 \times 301$
- (9)  $4 \times 698$

- 10)  $3 \times 499$
- $(11) 7 \times 602$
- (12) 9 × 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 5) 186
- (2) 248 (6) 146
- (3) 168(7) 328
- (4) 255 (8) 188

## **Exercise 2**

- 1) 171 5) 174
- (2) 232 (6) 134
- (3) 273 (7) 312
- (4) 245 (8) 172

## **Exercise 3**

- 1) 198 5) 183
- (2) 224 (6) 438
- (3) 215 (7) 486
- (4) 204 (8) 736

## **Exercise 4**

- 1) 162 5) 168
- (2) 259(6) 402
- (3) 190 (7) 468
- (4) 188 (8) 704

# **Exercise 5**

- 1) 804 5) 3010
- (2) 2107(6) 2112
- (3) 3216(7) 1606
- (4) 4509(8) 5418

## Exercise 6

- 1) 796 5) 2985
- (2) 2093(6) 2094
- (3) 3184(7) 1594
- (4) 4482 (8) 5382

#### Exercise 7

- 1) 48 5) 84
- (2) 108 (6) 52
- (3) 42 (7) 96
- (4) 68 (8) 48

- 9) 52
- (10) 102

## 32 (10) 102

## **Exercise 8**

- 1) 80 4 = 76
- (2) 120 + 3 = 123 (3)
- 300 5 = 295

- 4) 350 + 14 = 364
- (5) 280 + 12 = 292
- $(6) \qquad 120 9 = 111$

- 7) 600 + 12 = 61210) 1500 - 3 = 1497
- (8) 1500 + 5 = 1505(11) 4200 + 14 = 4214
- (9) 2800 8 = 2792(12) 36000 - 9 = 35991

## **Exercise 9**

Answers will vary.