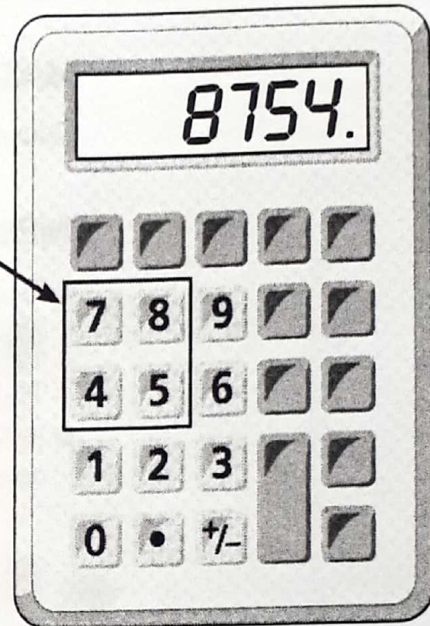# 4 Calculator capers

1 Number squares

(a) Use this square of 4 number keys.
- ■ Make the largest 4-digit number.
- ■ Make the smallest 4-digit number.
- ■ Find the difference.

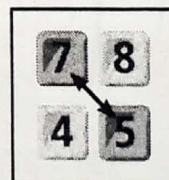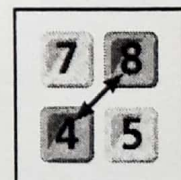(b) Do this again for other squares of 4 number keys. What do you notice?

`8754.`

```
7  8  9
4  5  6
1  2  3
0  .  +/-
```

2 Corners

(a) Use this square again.

```
7  8
4  5
```

Multiply the numbers in the opposite corners together.
Write both answers.

```
7  8        7  8
4  5   and  4  5
```
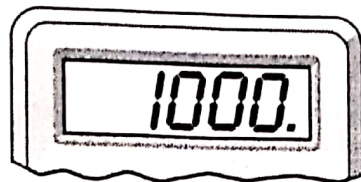
(b) Do this again for other squares.
What do you notice?

3 Investigate your number squares for other patterns.
Write about what you find.

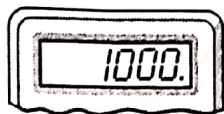Heinemann Math

5 Target | 1000.

1 Use these keys only to make | 1000. |

Use the **8** key eight times.

8 **+** **=**

2 Use these keys only to make | 1000. |

1 **3** **+** **−** **=**

3 Use these keys only to make | 1000. |

5 **3** **x** **−** **=**

4 Find other ways of doing questions **2** and **3**.

6 Row or column?

Name _____

1 Find the row or column with the most numbers which divide exactly by 7 or by 8 or by 9.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

2 Find a square of four numbers like this ⊞ on the grid so that

■ the total of the four numbers is as large as possible, **and**
■ none of the numbers divides exactly by 7 or by 8 or by 9.