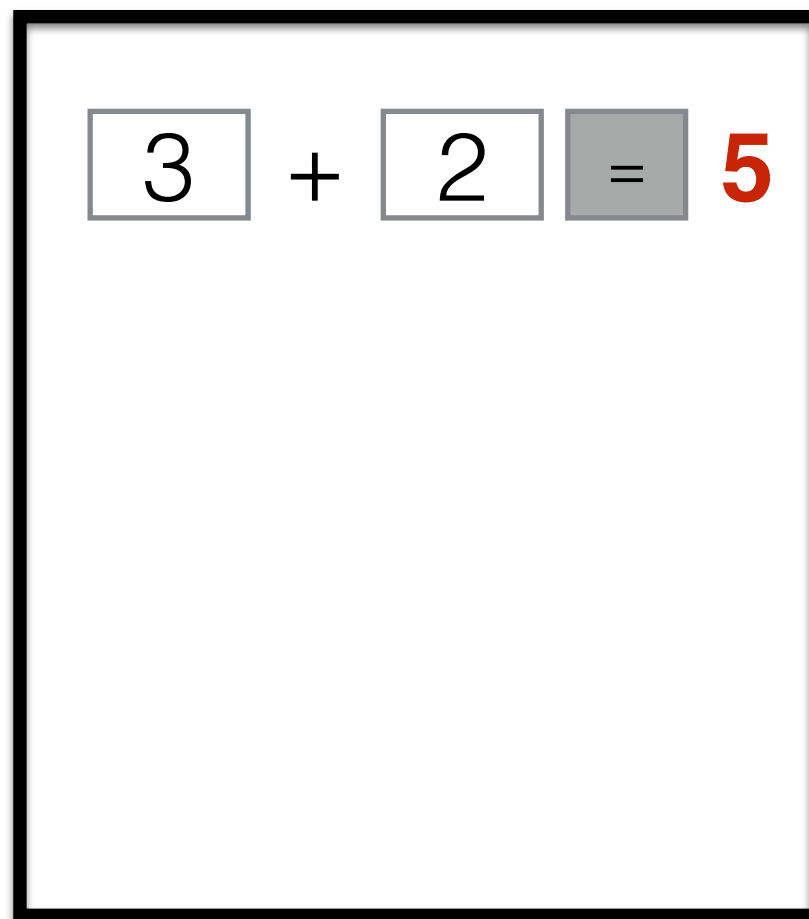# Exercises
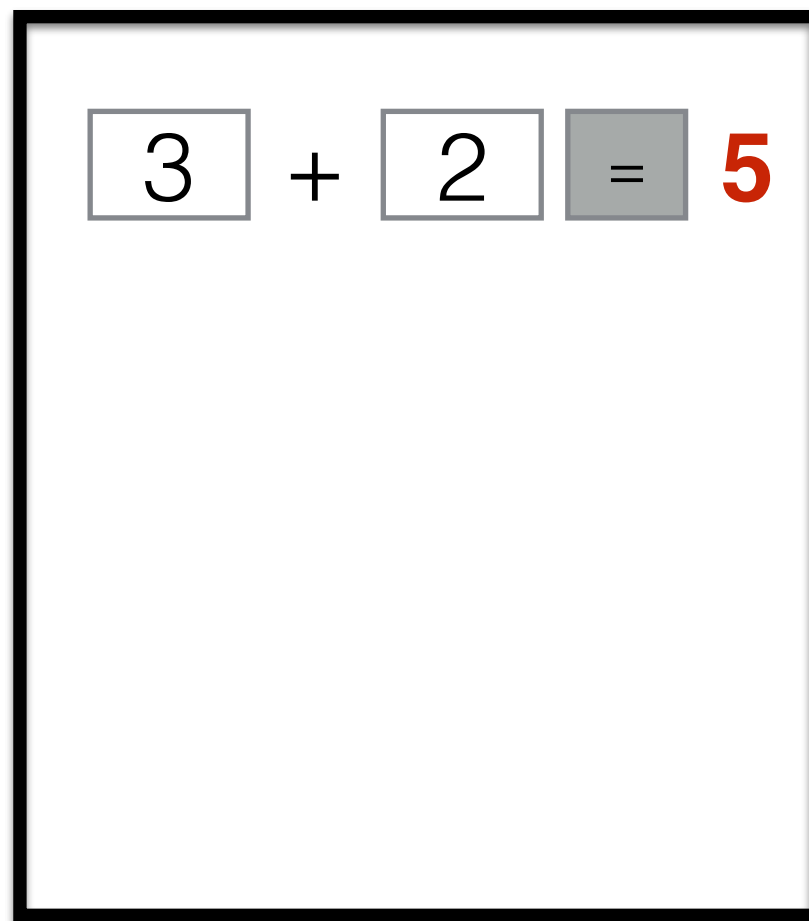
Ex 1

- Implement a simple calculator with a Linear Layout
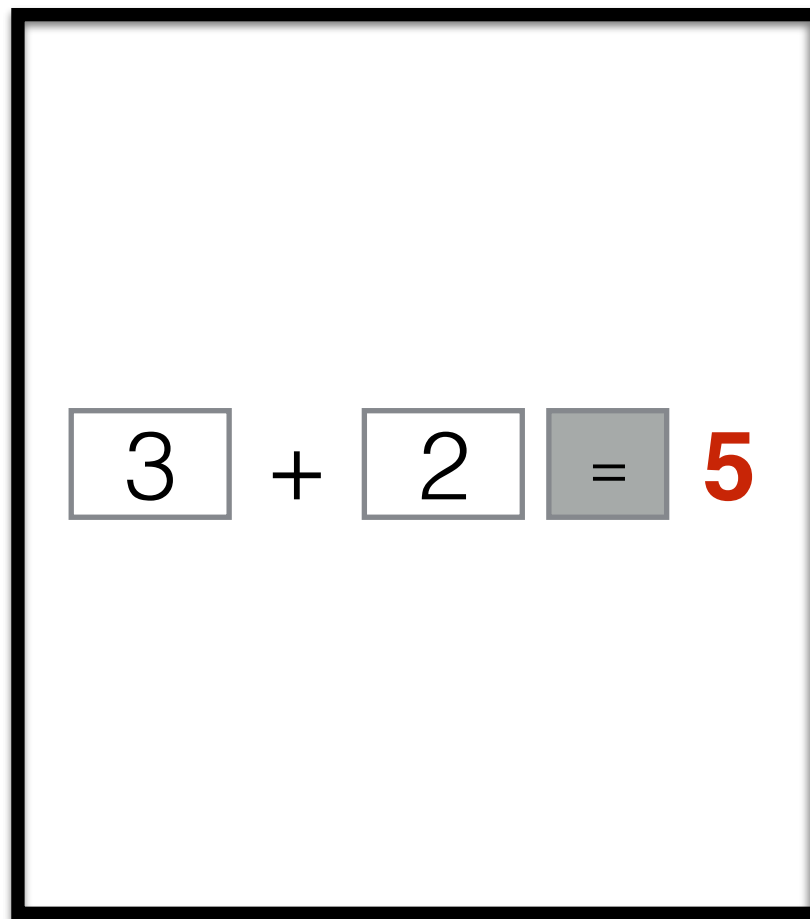
3 + 2 = **5**

Ex 2

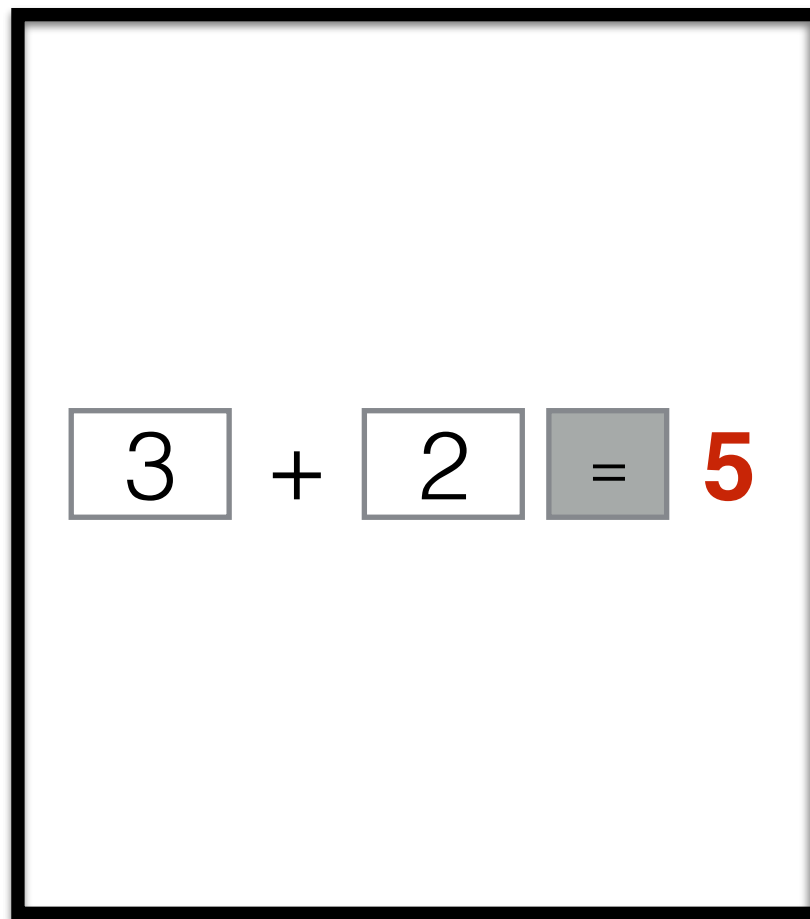- Implement a simple calculator with a Constraint Layout

3 + 2 = **5**

Ex 3

- Implement a *centered* simple calculator using only LinearLayout

3 + 2 = **5**

Ex 4

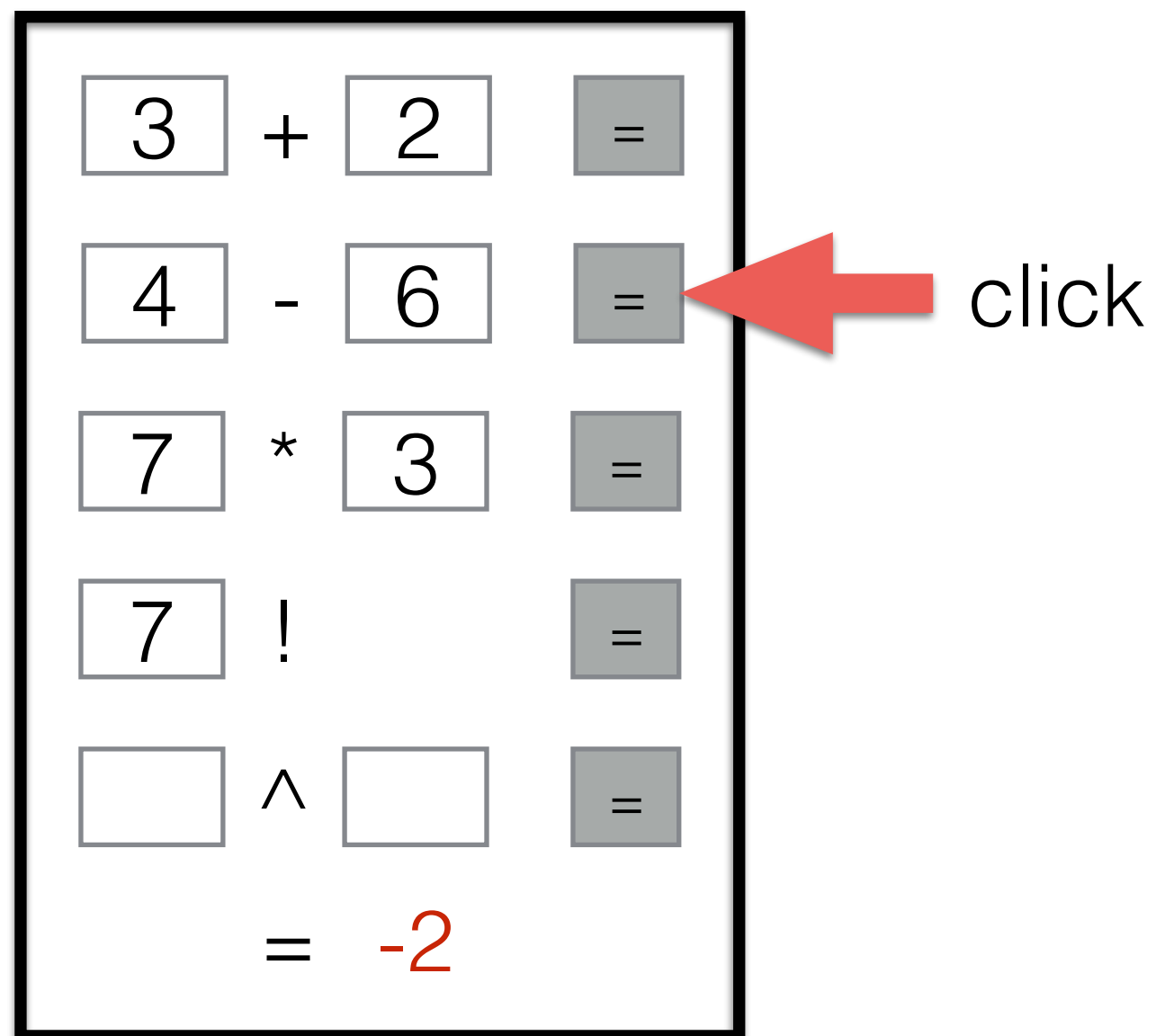- Implement a *centered* simple calculator using only ConstraintLayout

3 + 2 = **5**

Ex 5

- Implement the following calculator using only a RelativeLayout

Ex 6

- Implement a complete calculator

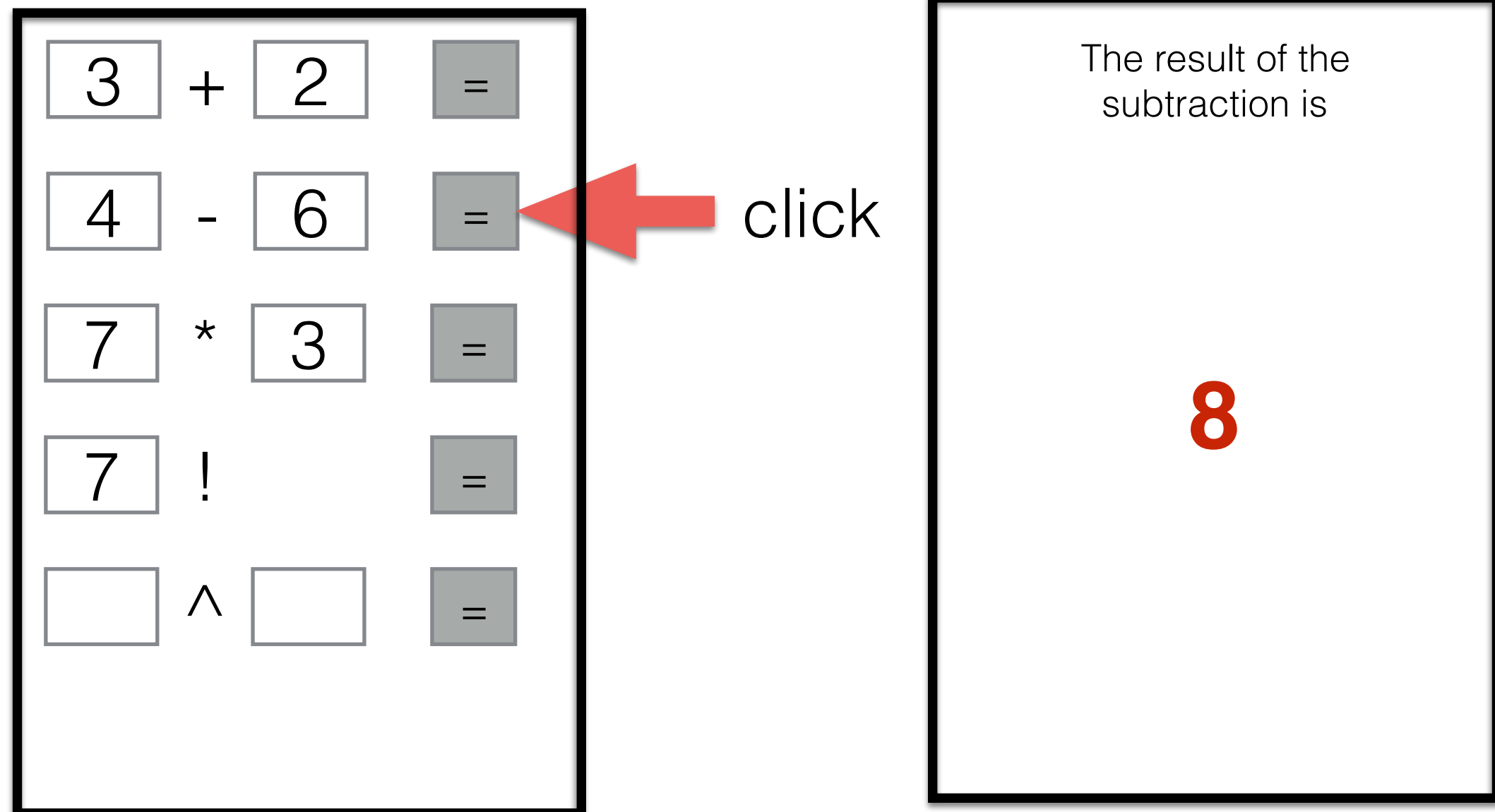|		
3 + 2	=
4 - 6	=	← click
7 * 3	=
7 !	=
^	=
	= -2

Ex 7

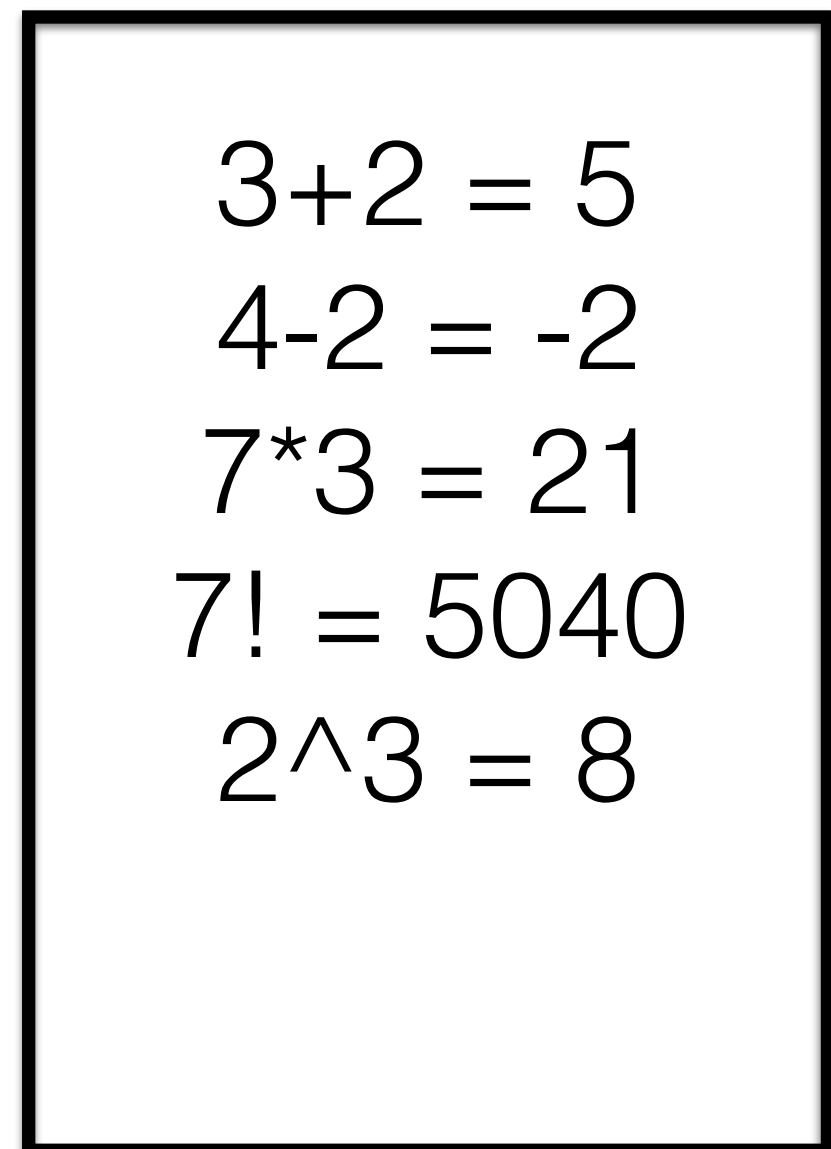- Implement a complete calculator with TableLayout
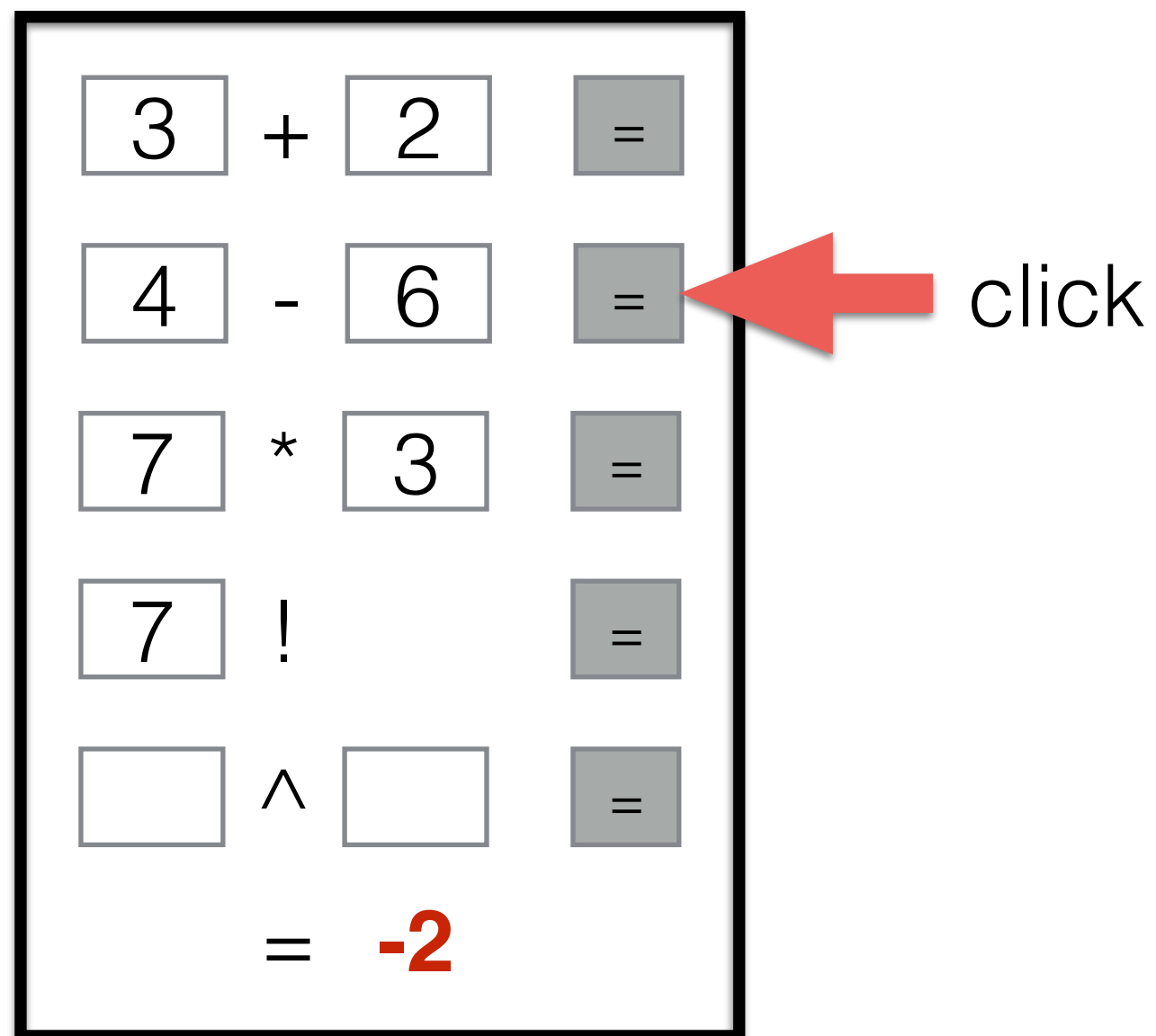
Ex 8

- Implement a complete calculator and display the result of an operation in a different screen

| 3 | + | 2 | = |

| 4 | - | 6 | = | ← click

| 7 | * | 3 | = |

| 7 | ! | | = |

| | ^ | | = |

The result of the subtraction is

8

Ex 9

- Implement a complete calculator and display the result of all the operations in a different screen with a ListView


```
3 + 2
4 - 6
7 * 3
7 !
2 ^ 3
=
```
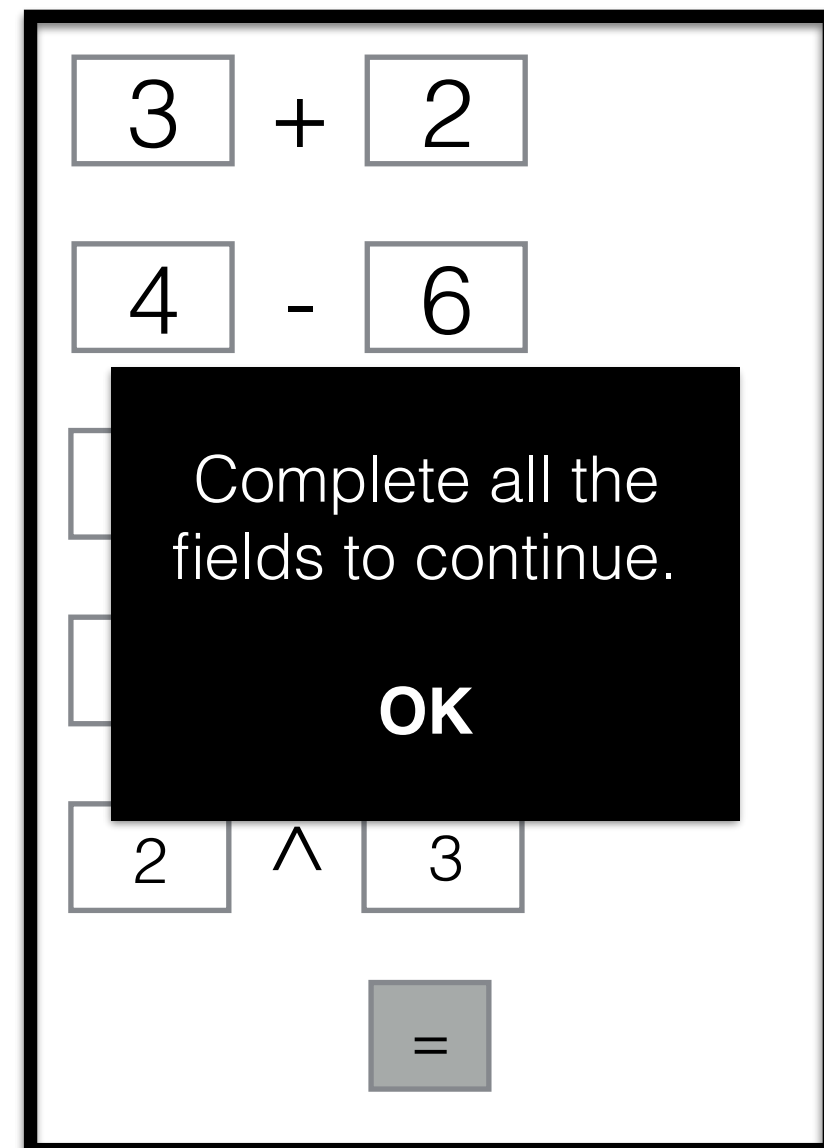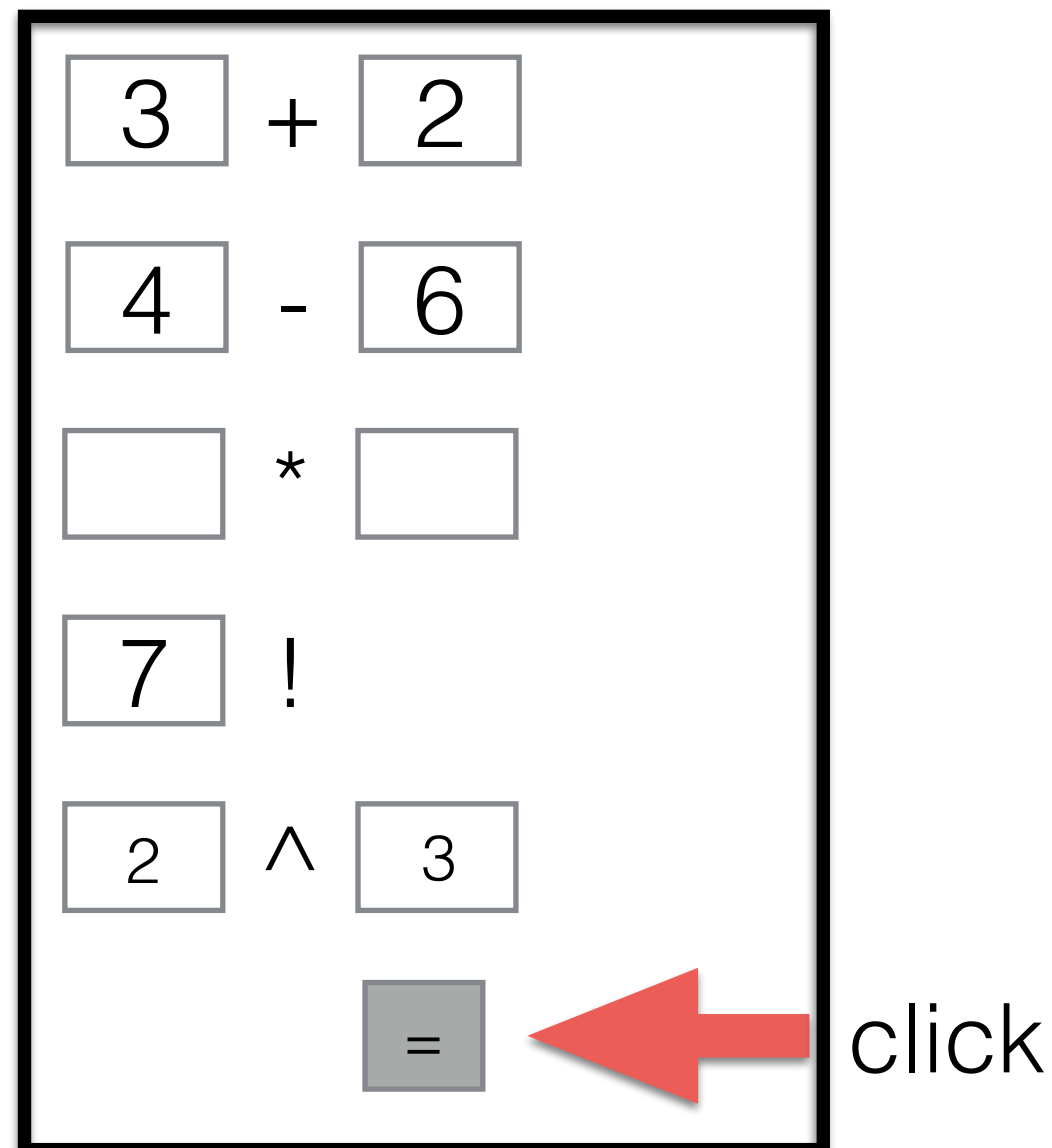click

```
3+2 = 5
4-2 = -2
7*3 = 21
7! = 5040
2^3 = 8
```
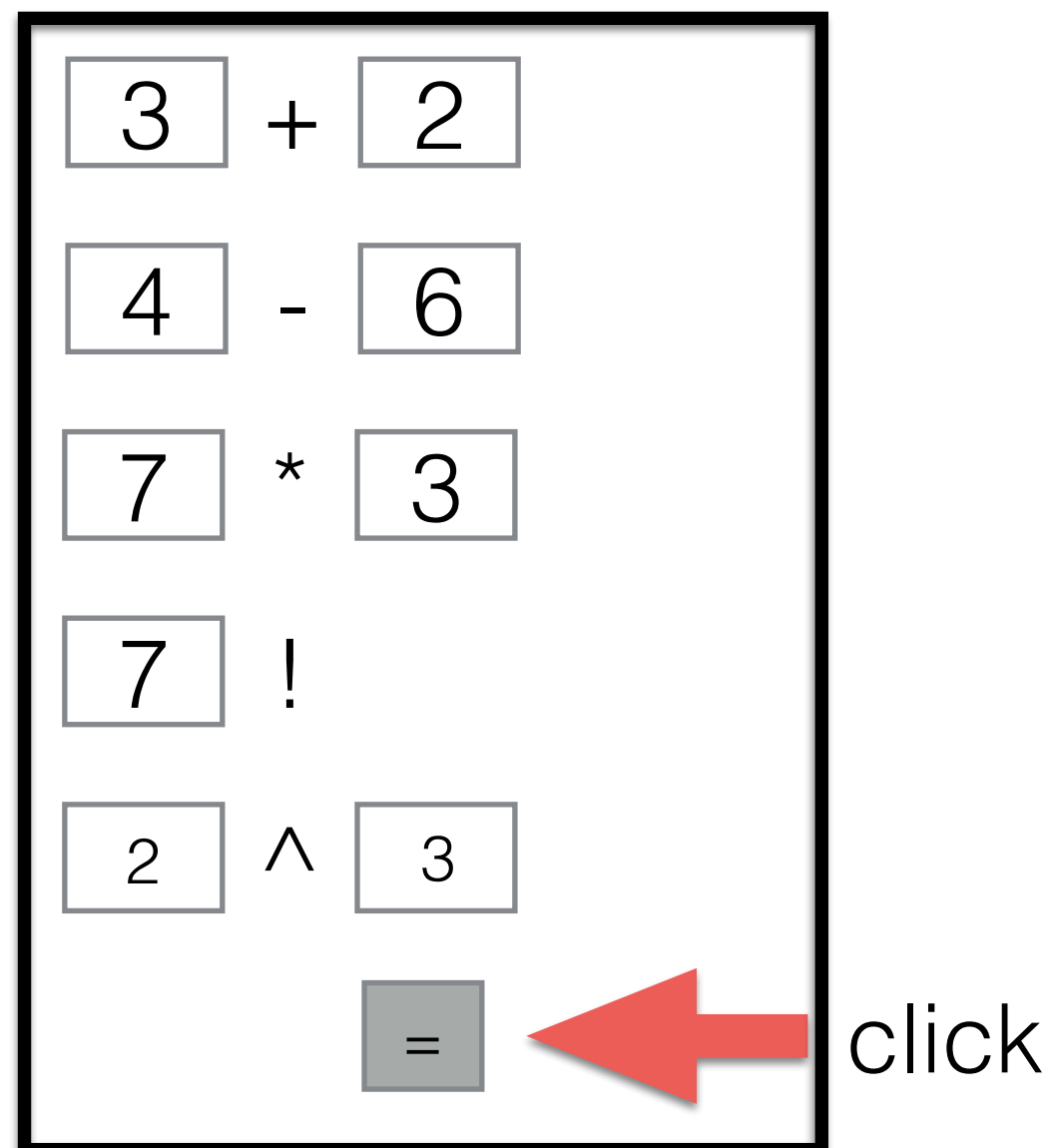
Ex 10

- Implement a complete calculator and display the result of all the operations in a different screen with a ListView

- Warn a user with an Alert Dialog if any of the field is empty

3	+	2
4	-	6
	*	
7	!	
2	^	3

= **← click**

| 3 | + | 2 |
| 4 | - | 6 |

Complete all the fields to continue.

OK

| 2 | ^ | 3 |

=

Ex 11

- Create a Movie model class with two ivars: *title* and *director*

- Subclass ArrayAdapter to obtain the following layout

Kill Bill
Quentin Tarantino

Youth
Paolo Sorrentino

Melancholia
Lars Von Trier

Melancholia
Lars Von Trier