

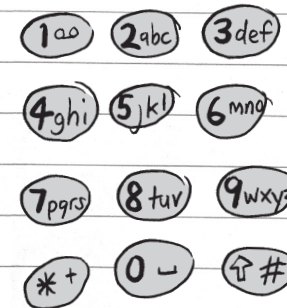
Reward 2

mobile phone code-breaker

Woah! You have read another whole chapter. You must feel great. You must feel awesome. You must feel like a million dollars. I do not have a million dollars to give you, but I do have something almost as good – an End of Chapter Reward!

This one is a puzzle. It is a mobile phone code. I got this idea from Aunty Faber's mobile phone. I noticed that you can make words and sentences by pushing the number buttons on her phone. So I pushed some buttons and made some words, but can you work out what words and sentences I made when I pushed the buttons on the next page?

To get you started, here is a reminder of what the buttons on a mobile phone look like.



And here is a code I will help you break.

S 8 tuv MM 3 def 7 pqrs 4 ghi S H 6 mno T

To work out what the missing letters are, it is best to start with the smallest word:

4 ghi S

It is easy to work out that this cannot be **GS** or **HS** because they are not even words, but it can be **IS**.

So that is what it must be. Now the sentence is:

S 8 tuv MM 3 def 7 pqrs IS H 6 mno T

Now for the next shortest word, **H**(6^{mng})**T**. It is easy to work this one out too. It cannot be **HMT** or **HNT**, so it must be **HOT**. Now the sentence is:

S(8^{tuv})**MM**(3^{def})(7^{pgrs}) **IS HOT**

Now for the long word, **S**(8^{tuv})**MM**(3^{def})(7^{pgrs}).

It is easy to tell that the first four letters cannot be **STMM**, or **SVMM**, so they must be **SUMM**.

Now you know this much:

SUMM(3^{def})(7^{pgrs}) **IS HOT**

It will not take you long to work out that the first word must be **SUMMER**. And that the whole sentence is:

SUMMER IS HOT

That is how to break a mobile phone code. Easy.

Now the rest is up to you.

Oh, and that last code is about the weather, not my friend Summer. Just in case you were wondering.

Here is your mobile phone code to break. Good luck!

A(8^{tuv})**6**(6^{mng})**8**(8^{tuv})**Y** **F**(2^{abc})**2**(2^{abc})**3**(3^{def})**7**(7^{pgrs}) **IS**
6(6^{mng})**4**(4^{ghi})**2**(2^{abc}) **E AND NO**(8^{tuv}) **A**
6(6^{mng})**6**(6^{mng})**0**(3^{def})**L**(3^{def})**-N**(8^{tuv})**8**(8^{tuv})

The answer is on page 148 (at the end of the book)

Now that you have broken a really hard code, you must be ready for more of my story. That is good, because I have a whole new chapter waiting to meet you! This next one is all about a game I played against a very nice lady... and it was not Auntie Faber.