$\qquad$
...And now for something completely different. Learning your 9 timestable by heart is still the best way, however if you get a bit stuck, there is a cool trick you can use that will get you out of trouble every time! But first, here are some awesome 9 x table facts:

- Every multiple of 9's digits adds up to 9 or 18 (until you get to huge numbers, when they still add up to other multiples of 9) E.g. $1+8=9,2+7=9$, $5+4=9,9+9=18$ and so on.
- If you line up the $9 x$ tables up to 10, it's a bit like a palindrome - it works backwards too! Check it:

$$
09,18,27,36,45,54,63,72,81,90
$$

- If you stack up the multiples of 9 , you get 0 to 9 on the left and 9 to 0 on the right. you on a table. Hold down the finger of the number you need to multiply by 9 . On the left side it will have the amount of tens and on the right side the ones. Have a look at these:


Images from 'Come Together Kids': http://www.cometogetherkids.com/2012/01/cool-9-times-tables-trick.htmI
So, now try some for yourself:

1. $9 \times 7=$ $\qquad$ Put your $7^{\text {th }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.
2. $9 \times 4=$ $\qquad$ Put your $4^{\text {th }}$ finger down. I have __ tens and $\qquad$ ones.
3. $9 \times 6=$ $\qquad$ Put your $6^{\text {th }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.
4. $9 \times 8=$ $\qquad$ Put your $8^{\text {th }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.
5. $9 \times 3=$ $\qquad$ Put your $3^{\text {rd }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.
6. $9 \times 5=$ $\qquad$ Put your $5^{\text {th }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.
7. $9 \times 10=$ $\qquad$ Put your $10^{\text {th }}$ finger down. I have $\qquad$ tens and $\qquad$ ones.

Stage 6: What about harder ones? Sometimes there are questions that don't fit on your hands. For example $14 \times 9=$ ? ? ? No worries! There's a handy way to do these ones too! First think of the $10 \times$ table (super mega-easy) : $14 \times 10=140$. Then take away one 14:

140-14 = 126. All of these $9 x$ table tricks work because $9=10-1$. Now, double check. Do all the digits in 126 add up to 9 ? $(1+2+6=9)$ Yep! Multiplati confirmed. Alright, now have a go for yourself:

1. $9 \times 16=\square$

Think: $10 \times 16=$ $\qquad$ minus $16=$ $\qquad$
2. $9 \times 24=$ $\qquad$ Think: $10 \times 24=$ $\qquad$ takeaway 24 = $\qquad$
3. $9 \times 22=$ $\square$ Think: $10 \times 22=$ $\qquad$ subtract $22=$ $\qquad$
4. $9 \times 17=$ $\qquad$ Think: $10 \times 17=$ $\qquad$ remove $17=$ $\qquad$
5. $9 \times 19=$ $\qquad$ Think: $10 \times 19=$ $\qquad$ less $19=$ $\qquad$

Alright, but what about really nasty ones? Use an old fashioned method and your basic facts knowledge to stack-em up! - Try:
(Remember to 'keep your columns' - place value is crucial. You can pop the zeros in first)
E.g. 45

52
63
48
23
$\begin{array}{r}\times \\ \hline\end{array}$
X 9
X 9
X 9
X 9
45
$+360$
$=405$

Take your time with these ones, you'll need to add them up carefully!

| 532 | 345 | 765 | 378 | 258 | 357 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\times 9$ | $\times 9$ | $\times 9$ | $\underline{9}$ | $\underline{9} 9$ | $\underline{9}$ |

