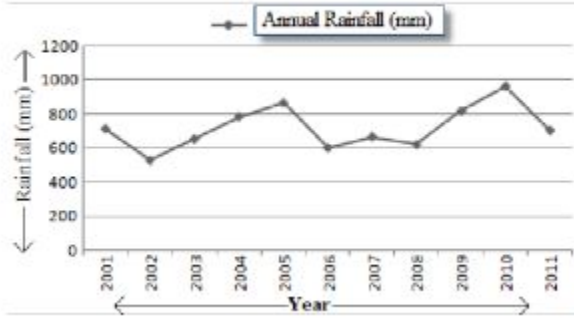


Can I use the SMILE method to  
divide?



Fast five

$$34.44 \times 100$$

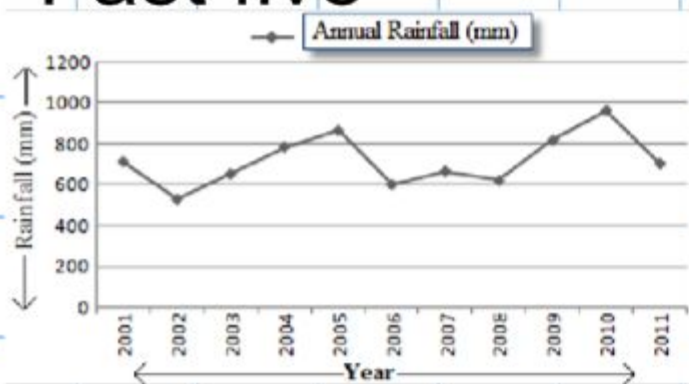
Which year had the highest rainfall?  
Which year had the lowest rainfall?

$$23 \times 85$$

$$+ 214 = 1000$$

$$\frac{3}{4} + \frac{2}{8}$$

# Fast five



Which year had the highest rainfall?

2010

Which year had the lowest rainfall?

2002

$$\frac{3}{4} + \frac{2}{8} = \frac{6+2}{8} = \frac{8}{8}$$

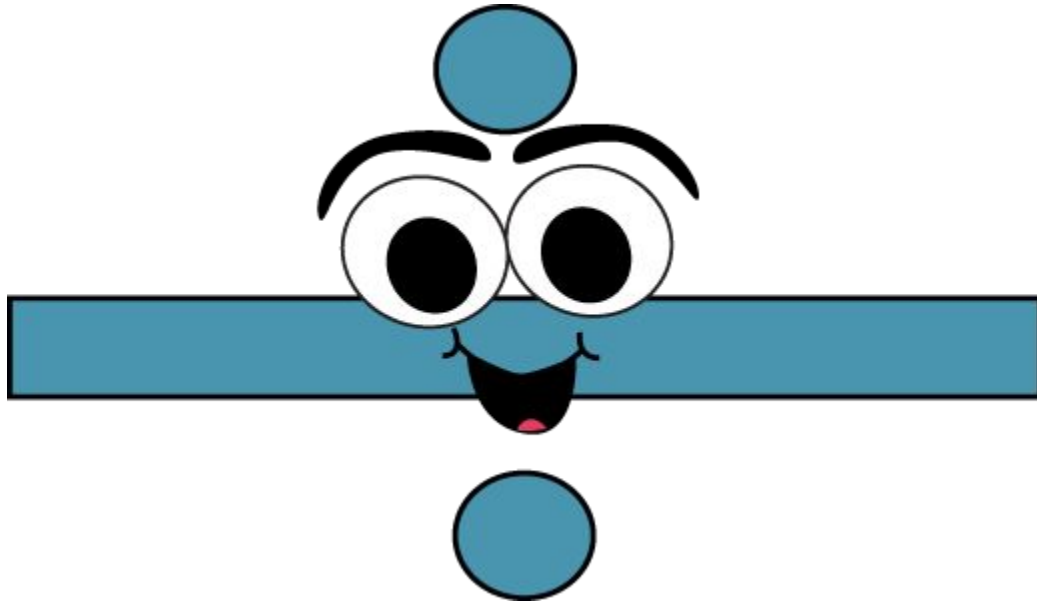
$$34.44 \times 100 = 3444$$

$$786 + 214 = 1000$$

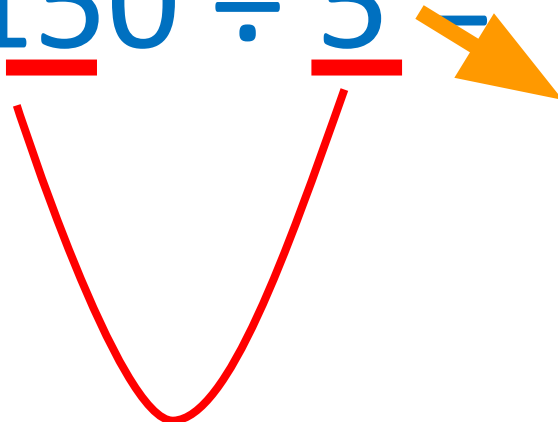
$$23 \times 85 =$$

$$\begin{array}{r} 85 \\ 23 \\ \hline 255 \\ + 1700 \\ \hline 1955 \end{array}$$

We are going to use the SMILE method for division to help us divide larger numbers.



When using the smile method, we only look at the digits greater than 0 (significant figures.) This makes it easier for us to divide the larger numbers.

$$\underline{150} \div \underline{5} = \quad \rightarrow \quad 15 \div 5 = 3$$




We divide the numbers greater than 0 and then remember to add on the same number of 0's in the question to the answer.

$$\underline{150} \div \underline{5} = 30$$


$$15 \div 5 = 3$$

Because 150 is 10x bigger than 15 (which is what we divided by 5) we therefore need to make the answer 10x bigger.

Let's try another one...

$$\underline{560} \div \underline{70} =$$



$$56 \div 7 = 8$$



Because there are two 0s in the question and we made both numbers 10x smaller to divide we don't need to make the answer 10x bigger (this looks like we are adding a zero on the end or moving one decimal place).

$$560 \div 70 = 8$$

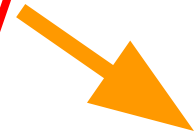
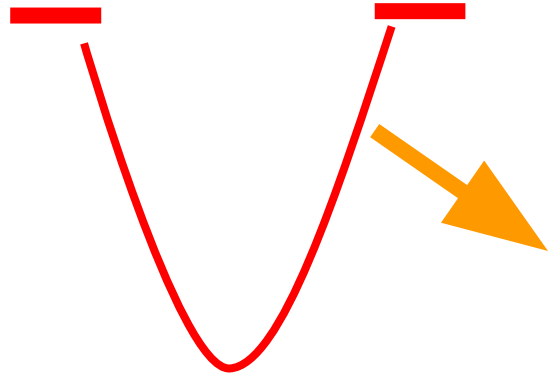


$$56 \div 7 = 8$$



Let's try another one...

$$\underline{7200} \div \underline{80} =$$


$$\underline{72} \div \underline{8} = 9$$



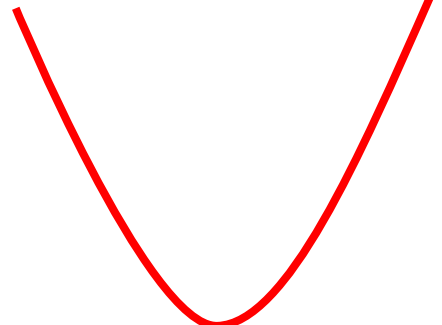
Because 7200 is 100x bigger than 72 and 80 is 10x bigger than 8, we therefore need to make the answer 10x bigger.



$$\underline{7200} \div \underline{80} = 90$$


$$72 \div 8 = 9$$

**Your turn** to have a go! **The answer is on the next slide.**

$$\underline{4200} \div \underline{60} =$$




We make 4200 100x smaller and 60 10x smaller so it is easier to divide the numbers. Then we make the answer 10x bigger.

$$\underline{4200} \div \underline{60} = 70$$


$$\underline{42} \div \underline{6} = 7$$

