Similarly, to divide by 10, 100 or 1000, move the digits one, two or three places to the right.

70

 $70 \div 10$ $70 \div 100$

 $70 \div 1000$

1502

 $1502 \div 10$

 $1502 \div 100$

 $1502 \div 1000$

1000	100	10	1	1/10	<u>1</u> 100	1000
		7	0			
			7			
			0	7		
			0	0	7	-
1	5	0	2			
	1	5	0	2		
		1	5	0	2	
			1	5	0	2

If necessary, put zeros into the 'empty' places after the decimal point.

WORKIT!

$$0.37 \times 35 = 12.95$$

Without using a calculator, work out

a 37×35

$$37 \times 35 = 100 \times 0.37 \times 35 \blacktriangleleft$$

$$= 12.95 \times 100 = 1295$$

b 3.7 × 350

$$3.7 \times 350 = 100 \times 0.37 \times 35$$

$$ightharpoonup = 12.95 \times 100 = 12.95$$

 $3.7 = 10 \times 0.37$ and $350 = 10 \times 35$, so the answer will be $10 \times 10 = 100$ times bigger.

 $37 = 100 \times 0.37$, so the answer will be 100 times bigger. Move the digits in 12.95 two places to the left.



$$0.37 = \frac{12.95}{35}$$

Divide both sides of the original calculation by 35.

$$\frac{42.95}{350} = \frac{42.95}{35 \times 40} = 0.37 \div 40 = 0.037 \blacktriangleleft$$

d
$$\frac{1295}{37}$$

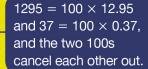
$$\frac{12.95}{0.37} = 35$$

 $350 = 10 \times 35$. Since the 350 is the denominator, the answer will be 10 times smaller.

$$\frac{1295}{37} = \frac{12.95 \times 100}{0.37 \times 100} = 35$$

Mathematical symbols

Mathematical symbols save time when writing. You need to remember the following symbols.





SNAP Mathematical symbols

Symbol	Meaning	Example	
=	is equal to	x + x = 2x	
≠	is not equal to	$1+5\times2\neq12$	
>	is greater than	-3 > -4	
<	is less than	0 < 4	
≥	is greater than or equal to	$x \ge 4$	
≤	is less than or equal to	$y \le 6$	



Put each symbol and its meaning on a stickynote and place them around your house to help you remember them.