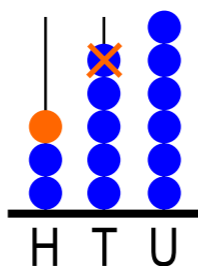


**Counting in 4s:** 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48...  
**Counting in 8s:** 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96...  
**Counting in 50s:** 50, 100, 150, 200, 250, 350, 400, 450, 500...  
**Counting in 100s:** 100, 200, 300, 400, 500, 600, 700, 800...

$$256 + 100 - 10 = 346$$

2 hundreds add 1 hundred is 3 hundreds  
 5 tens subtract 1 ten is 4 tens  
 6 units is still 6 units



**Largest to Smallest:** the number with the most digits before the decimal place is always the largest. Compare the thousands, hundreds, tens then units (in this order of priority).

**1000** **999** **919** **199** **191** **119**

1<sup>st</sup> 2<sup>nd</sup> 3<sup>rd</sup> 4<sup>th</sup> 5<sup>th</sup> 6<sup>th</sup>

1 thousand is 10 hundreds so is worth more than 9 hundreds.  
 9 hundreds are worth more than 1 hundred. 9 tens are worth more than 1 ten. 9 units are worth more than 1 unit.

**100:** One-hundred      **256:** Two-hundred and fifty-six  
**101:** One-hundred and one      **503:** Five-hundred and three  
**102:** One-hundred and two      **800:** Eight-hundred  
**110:** One-hundred and ten      **999:** Nine-hundred and ninety-nine  
**115:** One-hundred and fifteen      **1000:** One-thousand

$$\begin{array}{r} 234 \\ +567 \\ \hline 801 \\ 1 \end{array}$$

4 units add 7 units is 1 ten and 1 unit. 3 tens add 6 tens add 1 ten is 1 hundred and 0 tens. 2 hundreds add 5 hundreds add 1 hundred is 8 hundreds

$$\begin{array}{r} 4 \ 13 \ 1 \\ 543 \\ -456 \\ \hline 87 \end{array}$$

We can't subtract 6 units from 3 units. Convert 1 of the 4 tens into 10 units. 13 units subtract 6 units is 7 units.  
 We can't subtract 5 tens from 3 tens. Convert 1 of the 5 hundreds into 10 tens. 13 tens subtract 5 tens is 8 tens.  
 4 hundreds subtract 4 hundreds is 0 hundreds.

**Estimation:** round numbers to the nearest ten or hundred to get a rough answer (e.g. 32 + 69 is about 30 + 70 which is 100 so 32 + 69 will be about 100).

**Checking:** use reverse operation to check an answer (e.g. 18 - 6 = 12 is correct as 12 + 6 = 18)

x	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
8	8	16	24	32	40	48	56	64	72	80	88	96
10	10	20	30	40	50	60	70	80	90	100	110	120

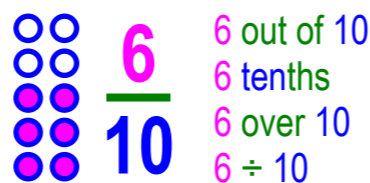
$$\begin{array}{r} 34 \\ \times 8 \\ \hline 272 \\ 2 \ 3 \end{array}$$

34 x 8 = 30 x 8 + 4 x 8  
 4 units x 8 is 3 tens and 2 units (4 x 8 = 32). 3 tens x 8 is 2 hundreds and 4 tens, but there are already 3 tens so 4 tens add 3 tens is 7 tens.

4 x 12 x 5 = 48 x 5... (hard)      **Remainder:** what is left over when dividing (e.g. 17 ÷ 5 = 3 remainder 2 as only 3 lots of 5 can be subtracted from 17 and the 2 is left over).  
 4 x 5 x 12 = 20 x 12 (easier)  
 2 x 10 x 12 = 2 x 120 = 240

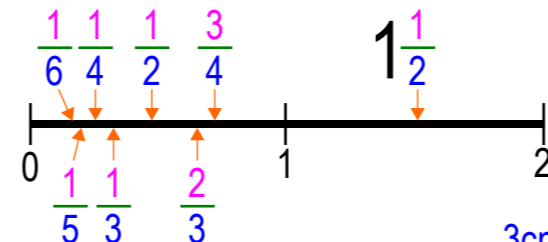
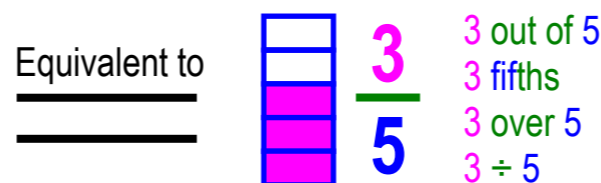
**+ Add +**  
 'What is the sum of...'  
 'What is the total of...'  
 'How many... altogether'  
 '... increase by...'

**x Multiply x**  
 '... times larger than...'  
 '... lots of...'  
 'Double/triple...'  
 'How many... altogether'

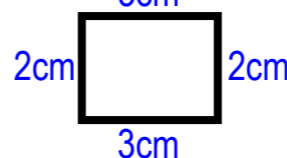


$$\frac{2}{7} + \frac{5}{7} = \frac{2+5}{7} = \frac{7}{7} = 1$$

$$\frac{3}{5} - \frac{1}{5} = \frac{3-1}{5} = \frac{2}{5}$$



**Perimeter:** total distance around the outside of a 2D shape (add all the lengths of the sides together). (e.g. perimeter of 10cm as 3 + 2 + 3 + 2 = 10).



**Change:** money given - total cost = change (e.g. if you bought an apple for 25p and a banana for 20p, How much change would be had if you gave 50p? 25p + 20p = 45p. 50p - 45p = 5p change).

5 ÷ 3 = 1 remainder 2 (the 5, 1 and 2 represent 50, 10 and 20 as they are placed in the tens column so 50 ÷ 3 = 10 remainder 20). The remainder of 2 (tens) is carried onto the units column (converted into 20 units). 21 ÷ 3 = 7

$$\begin{array}{r} 17 \\ 3 \overline{)521} \end{array}$$

**Roman Numerals**  
 I (1)  
 II (2)  
 III (3)  
 IV (4)  
 V (5)  
 VI (6)  
 VII (7)  
 VIII (8)  
 IX (9)  
 X (10)  
 XI (11)  
 XII (12)

# .CG Maths.

KS2 Year 3 Maths  
 Cheat Sheet (V.1.2)

12-hour time	24-hour time
12am	00:00
11:30am	11:30
12pm	12:00
1pm	+12 13:00
3pm	+12 15:00
11:59pm	+12 23:59

**Morning:** 00:01 to 11:59      **Noon:** 12:00  
**Afternoon:** 12:01 to 23:59      **Midnight:** 00:00

**Months (days)**  
 Jan (31)  
 Feb (28/29)  
 Mar (31)  
 Apr (30)  
 May (31)  
 Jun (30)  
 Jul (31)  
 Aug (30)  
 Sep (30)  
 Oct (31)  
 Nov (30)  
 Dec (31)

60 seconds in a minute. 60 minutes in an hour. 24 hours in a day. 7 days in a week. 12 months in a year. 365 days in a year (366 for leap year, 1 day is added to February every 4 years).

$$14:52 + 15 \text{ minutes} = 15:07$$

52 + 15 = 67 minutes. Convert 60 of the minutes into an hour leaving 7 minutes left over. Alternatively, add 8 minutes to get to 15:00 then add another 7 minutes.

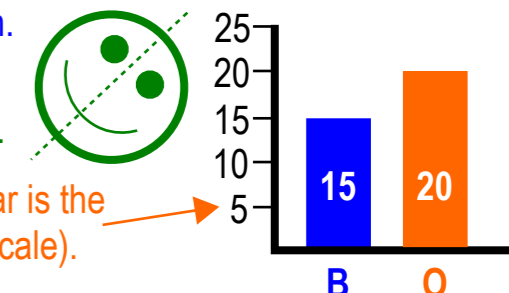
$$00:30 - 50 \text{ minutes} = 23:40$$

Convert 1 hour into 60 minutes giving 90 minutes in total (23:90). 1 hour before 00 is 23. 90 - 50 = 40. Alternatively, subtract 30 minutes to get to 00:00 then subtract another 20.



1kg = 1000g. 1m = 100cm. 1cm = 10mm

**Angles:** rotation between two lines  
**Right angles:** 2 make a straight line or half a turn. 3 make three quarters of a turn.  
**Acute angle:** smaller than a right angle.  
**Obtuse angle:** larger than a right angle.  
**Perpendicular:** lines which meet at right angles.  
**Parallel:** lines which will never meet if they are extended. Going in the same direction.



**Symmetrical:** identical on both sides of a straight line.

**Bar Chart:** Height of the bar is the number (be careful of the scale).