

Rounding HM: 130, 132-136

	to the nearest 1000	to the nearest 100	to the nearest 10
37521	38000	37500	37520
274503	275000	274500	274500
7630918	7631000	7630900	7630920
9875	10000	9900	9880
452	0	500	450

Original number	Rounded Number (to 2 dp)
10.459870	10.46 (round up)
13.32246	13.32 (round down)
0.55455	0.55 (round down)
191.76546	191.77 (round up)

	to 3 s. f.	to 2 s. f.	to 1 s. f.
6.3528	6.35	6.4	6
34.026	34.0	34	30
0.005708	0.00571	0.0057	0.006
150.932	151	150	200
0.00007835	0.0000784	0.000078	0.00008

Estimating HM: 131

Always round to 1 s.f. when estimating. For example

$$562 \rightarrow 600$$

$$233 \rightarrow 200$$

$$600 \times 200 = 120,000$$

Year 7 - Number (2)

HM: 261

PRIME NUMBERS

So what is a prime number?
Prime numbers are special numbers that can **only** be divided by themselves and 1.

For example 41 is a prime number.
It can only be divided by 1 and 41.

Factors and Multiples HM: 27, 31-34


Factor Ninja

chops up a number into factors

Factors of 16:
1, 2, 4, 8, 16

Because...

1 x 16 = 16
2 x 8 = 16
4 x 4 = 16




The Multiple Monster

makes numbers bigger

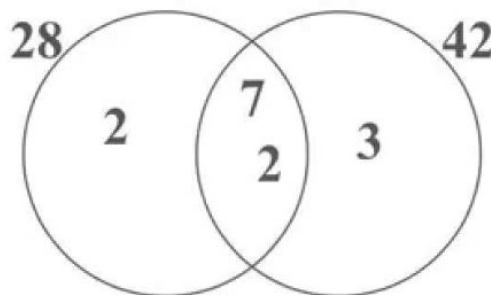
Multiples of:

2, 4, 6, 8, 10, 12, 14...
3, 6, 9, 12, 15, 18, 21...
4, 8, 12, 16, 20, 24, 28...
5, 10, 15, 20, 25, 30, 35...
6, 12, 18, 24, 30, 36, 42...



HCF and LCM HM: 28-36

To find the Highest Common Factor (HCF) multiply the numbers in the overlap. HCF = $7 \times 2 = 14$
To find the Lowest Common Multiple (LCM) multiply all the numbers. LCM = $7 \times 3 \times 2 \times 2 = 84$



Definitions / Key terms

Factors	A number that divides exactly into another number	The factors of 18 are; 1, 2, 3, 6, 9, 18
Prime number	A number with exactly 2 factors 1 and itself	7 is prime as as its only factors are 1 and 7
Multiple	A number in another numbers timestable	The first five multiples of 6 are 6, 12, 18, 24, 30
LCM	Lowest common multiple	The LCM of 6 and 8 is 24
HCF	Highest common factor	The HCF of 10 and 15 is 5
Decimal place (d.p.)	Places after the decimal point	3.14 has 2 decimal places
Significant figures (s.f.)	Counted from the first non zero digit	234500 to 2 sig fig is 230000
Approximate	Rough answer	11 is approximately 10