

Number 1
Add and subtract decimals including negative numbers
Multiply an integer by a decimal including negative numbers
Divide any decimal by a integer including negative numbers
Round any number to decimal places
Round to significant figures
Estimate and approximate answers
Understand truncation
MINI REVIEW

Prime Factors
To know what prime numbers are
To understand prime factor decomposition
To find the Highest Common Factor
To find the Lowest Common Multiple
OPEN BOOK ASSESSMENT

DEFINITION	CHARACTERISTICS	
Approximating a number to the closest number of lower, given accuracy.	- Numbers are said to “round up” or “round down” depending on whether they get bigger or smaller - By convention, numbers halfway between two values are rounded up	
EXAMPLES	NON-EXAMPLES	
35400 $\approx$ 35000	35400 $\neq$ 354	
35700 $\approx$ 36000	35400 $\neq$ 350	35700 $\neq$ 360
3.54 $\approx$ 3.5	3.54 $\neq$ 3.50	3.57 $\neq$ 3.60
3.57 $\approx$ 3.6	3.54 $\neq$ 4.00	3.5 $\neq$ 4.0
3.54 $\approx$ 4	3.49 $\neq$ 4	
3.57 $\approx$ 4	12.234 $\neq$ 10.000	
3.5 $\approx$ 4		
3.49 $\approx$ 3		
12.234 $\approx$ 10		

Rounding

Fractions

Order fractions/percentages/decimals

Find fractional increase and decrease

Convert recurring decimals to fractions

MINI REVIEW

Percentages

Find any percentage amount

Increase by a percentage amount

Decrease by a percentage amount

Using a multiplier with percentages

Using a multiplier with percentage increase and decrease

Compound interest and depreciation

OPEN BOOK ASSESSMENT

DEFINITION

Number with a finite number of digits following the decimal point.

CHARACTERISTICS

- The decimal “stops” after a given number of decimal places.
- You could count the number of digits after the decimal point.

EXAMPLES

0.2	0.278	1.87
12.76578	10000.1	
4.0000000001	80.987654321	

NON-EXAMPLES

$$\begin{array}{l} 0.\dot{6} \qquad 0.123\dot{4} \\ \pi = 3.1415926535897932 \dots \\ \sqrt{2} = 1.41421 \dots e = 2.7182818 \dots \end{array}$$

DEFINITION

A measure of the proportion of one whole, expressed as parts per 100.

CHARACTERISTICS

Shown by the symbol %
Equivalent to fractions with a
denominator of 100.

EXAMPLES

“Find 20% of”
 “Increase 37 kg by 2.6%”
 “A sale takes 33% off...”
 “Over its life, the height of a human increases by an average of 225%”

NON-EXAMPLES

	0.3	$\frac{5}{8}$	$\frac{1}{4}$
0.2356		1.4	

Terminating Decimal

Percentage

Indices and standard form
To know square/cube numbers
To know square roots and cube roots
To know the first 5 rules of indices
To use fractional and negative indices
MINI REVIEW
Convert standard form to an ordinary number and back again
Multiple using standard form
Divide using standard form
Add and subtract using standard form
Ordering in standard form
OPEN BOOK ASSESSMENT

DEFINITION	VOCABULARY	DEFINITION	CHARACTERISTICS
Standard form is written in the form $a \times 10^n$, where a is a number bigger than or equal to 1 and less than 10. n can be any positive or negative whole number.	- Indices - Power - Place value - Tenth - Hundredth	An index is a power. The plural of index is indices. The power show the number of base numbers that are to be multiplied together.	It is written raised above the base number (to the right) and usually in a smaller font. Indices of negative numbers require brackets round the number.
EXAMPLES 3.6×10^5 1.6638×10^3 4.3×10^{-9} 5×10^{-2}	NON-EXAMPLES 0.043×10^{-7} 520×10^3 0.0074	EXAMPLES 5^2 means 5×5 3^4 means $3 \times 3 \times 3 \times 3$ -7^2 means $-(7 \times 7) = -49$ $(-7)^2$ means $(-7) \times (-7) = 49$ a^2, n^2, ab^3, e^2f^8	NON-EXAMPLES $a2$ $n4$ $d3f4$ ^3c