

Name _____

Date _____

Unit 1 · Integers — glossary

All 28 key words, with a worked example for each.

Term	Meaning	Example
integer	A positive or negative whole number, including zero.	-7 , 0 and 43 are integers; 2.5 is not.
negative number	A number less than zero, written with a minus sign in front.	-12°C is twelve degrees below zero.
inverse operation	The operation that undoes another one.	Subtracting 5 undoes adding 5.
sum	The result of adding numbers together.	The sum of 4 and -9 is -5 .
difference	The result of subtracting one number from another.	The difference between 4 and -9 is 13.
product	The result of multiplying numbers together.	The product of -3 and 4 is -12 .
quotient	The result of a division.	The quotient of -48 and 6 is -8 .
multiple	The result of multiplying a number by a whole number.	The multiples of 4 are 4, 8, 12, 16, ...
common multiple	A number that is a multiple of two or more numbers.	24 is a common multiple of 4 and 6.
lowest common multiple	The smallest number that is a multiple of two or more numbers.	The LCM of 4 and 6 is 12.
factor	A number that divides exactly into another number without any remainder.	$15 \div 5 = 3$, so 5 is a factor of 15.
common factor	A number that is a factor of two or more numbers.	6 is a common factor of 12 and 18.
highest common factor	The largest number that is a factor of two or more numbers.	The HCF of 12 and 18 is 6.
co-prime	Describes two numbers whose only common factor is 1.	9 and 20 are co-prime.
even number	Any whole number that can be divided by 2 without a remainder.	4 is even; 5 is not.

Term	Meaning	Example
odd number	Any whole number that has a remainder when divided by 2.	<i>7 is an odd number.</i>
divisible	When one number is divided by another, the result is an integer.	<i>342 is divisible by 3.</i>
tests of divisibility	Quick checks used to see whether one number divides exactly into another.	<i>A number is divisible by 9 when its digits add to a multiple of 9.</i>
remainder	The amount left over after a division.	<i>$17 \div 5 = 3$ remainder 2.</i>
consecutive	Describes numbers that are next to each other when placed in order.	<i>7, 8 and 9 are consecutive.</i>
digit	One of the symbols 0 to 9 used to write a number.	<i>The number 342 has three digits.</i>
index	The small raised number that shows how many times a number is multiplied by itself.	<i>In 7^2 the index is 2, and $7^2 = 49$.</i>
square number	The number you get when you multiply an integer by itself.	<i>$5 \times 5 = 25$, so 25 is a square number.</i>
square root	The number that was multiplied by itself to give a square number.	<i>$\sqrt{25} = 5$.</i>
cube number	The number you get when you multiply an integer by itself, then by itself again.	<i>$3 \times 3 \times 3 = 27$, so 27 is a cube number.</i>
cube root	The number that was cubed to give a cube number.	<i>$\sqrt[3]{27} = 3$.</i>
estimate	To find an approximate value that is close enough to be useful.	<i>$\sqrt{50}$ is about 7.</i>
justify	To give evidence or a reason that shows why an answer is correct.	<i>Justify your answer by showing the digit sum.</i>