

# B1

## B1

*Look up B1 in Wiktionary, the free dictionary. B1, B.I, B.1 or B-1 may refer to: Bradykinin receptor B1, a human protein Cinnamtannin B1, a condensed tannin*

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### B1 Preliminary

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B1 Preliminary, previously known as Cambridge English: Preliminary and the Preliminary English Test (PET), is an English language examination provided by Cambridge Assessment English, one of the examinations in the Cambridge English Qualifications.

B1 Preliminary is an intermediate-level qualification and is designed for learners who have mastered the basic of English and now have practical language skills for everyday use. It is targeted at Level B1 of the Common European Framework of Reference (CEFR).

B1 Preliminary is offered in two versions: B1 Preliminary for Schools, for school-aged learners, and B1 Preliminary, for general and higher education adult learners.

### Rockwell B-1 Lancer

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The Rockwell B-1 Lancer is a supersonic variable-sweep wing, heavy bomber used by the United States Air Force. It has been nicknamed the "Bone" (from "B-One"). As of 2024, it is one of the United States Air Force's three strategic bombers, along with the B-2 Spirit and the B-52 Stratofortress. It is a heavy bomber with up to a 75,000-pound (34,000 kg) payload.

The B-1 was first envisioned in the 1960s as a bomber that would combine the Mach 2 speed of the B-58 Hustler with the range and payload of the B-52, ultimately replacing both. After a long series of studies, North American Rockwell (subsequently renamed Rockwell International, B-1 division later acquired by Boeing) won the design contest for what emerged as the B-1A. Prototypes of this version could fly Mach 2.2 at high altitude and long distances and at Mach 0.85 at very low altitudes. The program was canceled in 1977 due to its high cost, the introduction of the AGM-86 cruise missile that flew the same basic speed and distance, and early work on the B-2 stealth bomber.

The program was restarted in 1981, largely as an interim measure due to delays in the B-2 stealth bomber program. The B-1A design was altered, reducing top speed to Mach 1.25 at high altitude, increasing low-altitude speed to Mach 0.92, extensively improving electronic components, and upgrading the airframe to carry more fuel and weapons. Named the B-1B, deliveries of the new variant began in 1985; the plane formally entered service with Strategic Air Command (SAC) as a nuclear bomber the following year. By 1988, all 100 aircraft had been delivered.

With the disestablishment of SAC and its reassignment to the Air Combat Command in 1992, the B-1B's nuclear capabilities were disabled and it was outfitted for conventional bombing. It first served in combat

during Operation Desert Fox in 1998 and again during the NATO action in Kosovo the following year. The B-1B has supported U.S. and NATO military forces in Afghanistan and Iraq. As of 2025, the Air Force operates 45 B-1Bs bombers, with many retired units in the Boneyard. The Northrop Grumman B-21 Raider is to begin replacing the B-1B after 2025; all B-1s are planned to be retired by 2036, replaced by the B-21.

## HMS B1

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## Char B1

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The Char B1 was a specialised break-through vehicle, originally conceived as a self-propelled gun with a 75 mm howitzer in the hull; later a 47 mm gun in a turret was added, to allow it to function also as a Char de Bataille, a "battle tank" fighting enemy armour, equipping the armoured divisions of the Infantry Arm. Starting in the early twenties, its development and production were repeatedly delayed, resulting in a vehicle that was both technologically complex and expensive, and already obsolescent when real mass-production of a derived version, the Char B1 "bis", started in the late 1930s. A further up-armoured version, the Char B1 "ter", was only built in two prototypes.

Among the most powerfully armed and armoured tanks of its day, the type was very effective in direct confrontations with German armour in 1940 during the Battle of France, but low speed and high fuel consumption made it ill-adapted to the war of movement then being fought. After the defeat of France, captured Char B1 (bis) would be used by Germany, with some rebuilt as flamethrowers, Munitionspanzer, or mechanised artillery.

## B1 cell

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B1 cells are a sub-class of B cell lymphocytes that are involved in the humoral immune response. They are not part of the adaptive immune system, as they have no memory, but otherwise, B1 cells perform many of the same roles as other B cells: making antibodies against antigens and acting as antigen-presenting cells. These B1 cells are commonly found in peripheral sites, but less commonly found in the blood. These cells are involved in antibody response during an infection or vaccination.

There are two types of B1 cells subsets, B1a cells and B1b cells. B1b cells have been shown to be capable of memory responses. B1b cells also can recognize protective antigens in bacteria, which is unique because they are targeting something internal.

## List of B1 roads

*designated B1. Roads entries are sorted in the countries alphabetical order. B1 road (Croatia), the designation of an expressway route in Croatia B1 road (Cyprus)*

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B1 road (Croatia), the designation of an expressway route in Croatia

B1 road (Cyprus), a road in Cyprus

B1 highway (Germany), a German road

B1 road (Kenya), a road connected to the A1 road

B1 road (Namibia), an important North-South road

B1 road (Sri Lanka), a road connecting Akkaraipattu and Warapathanchenai

B1 road (United Kingdom) may refer to:

B1 road (Northern Ireland), a road connecting Downpatrick and Ardglass

B1 road (United States of America) may refer to:

B-1 corridor (Appalachian Development Highway System)

B1 (file format)

*B1 is an open archive file format that supports data compression and archiving[citation needed]. B1 files use the file extension &quot;.b1&quot; or &quot;.B1&quot; and the*

B1 is an open archive file format that supports data compression and archiving. B1 files use the file extension ".b1" or ".B1" and the MIME media type application/x-b1. B1 incorporates the LZMA compression algorithm.

B1 archive combines a number of files and folders into one or more volumes, optionally adding compression and encryption. Construction of the B1 archive involves creating a binary stream of records and building volumes of that stream. The B1 archive format supports password-based AES-256 encryption.

B1 files are created and opened with its native open-source B1 Pack Tool, as well as B1 Free Archiver utility.

B1 Butcher

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The B1 Butcher is an unidentified serial killer in Namibia. The B1 Butcher murdered at least five women between 2005 and 2007, with all murders related to the National Road B1.

In 2007, a German-born Namibian was accused of rape, arrested and later linked to these unsolved murders. However, he was, after a long period of imprisonment, acquitted due to a lack of evidence. In 2008, a man who committed suicide was implicated as the series of murders ended in 2007, but the connection could not be conclusively proven.

Aflatoxin B1

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Aflatoxin B1 is an aflatoxin produced by *Aspergillus flavus* and *A. parasiticus*. It is a very potent carcinogen with a TD50 3.2 µg/kg/day in rats. This carcinogenic potency varies across species with some, such as rats and monkeys, seemingly much more susceptible than others. Aflatoxin B1 is a common contaminant in a variety of foods including peanuts, cottonseed meal, corn, and other grains; as well as animal feeds. Aflatoxin B1 is considered the most toxic aflatoxin and it is highly implicated in hepatocellular carcinoma (HCC) in humans. In animals, aflatoxin B1 has also been shown to be mutagenic, teratogenic, and to cause immunosuppression. Several sampling and analytical methods including thin-layer chromatography (TLC), high-performance liquid chromatography (HPLC), mass spectrometry, and enzyme-linked immunosorbent assay (ELISA), among others, have been used to test for aflatoxin B1 contamination in foods. According to the Food and Agriculture Organization (FAO), a division of the United Nations, the worldwide maximum tolerated levels of aflatoxin B1 was reported to be in the range of 1–20 µg/kg (or .001 ppm - 1 part-per-billion) in food, and 5–50 µg/kg (.005 ppm) in dietary cattle feed in 2003.

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