

NUCLEAR WEAPON

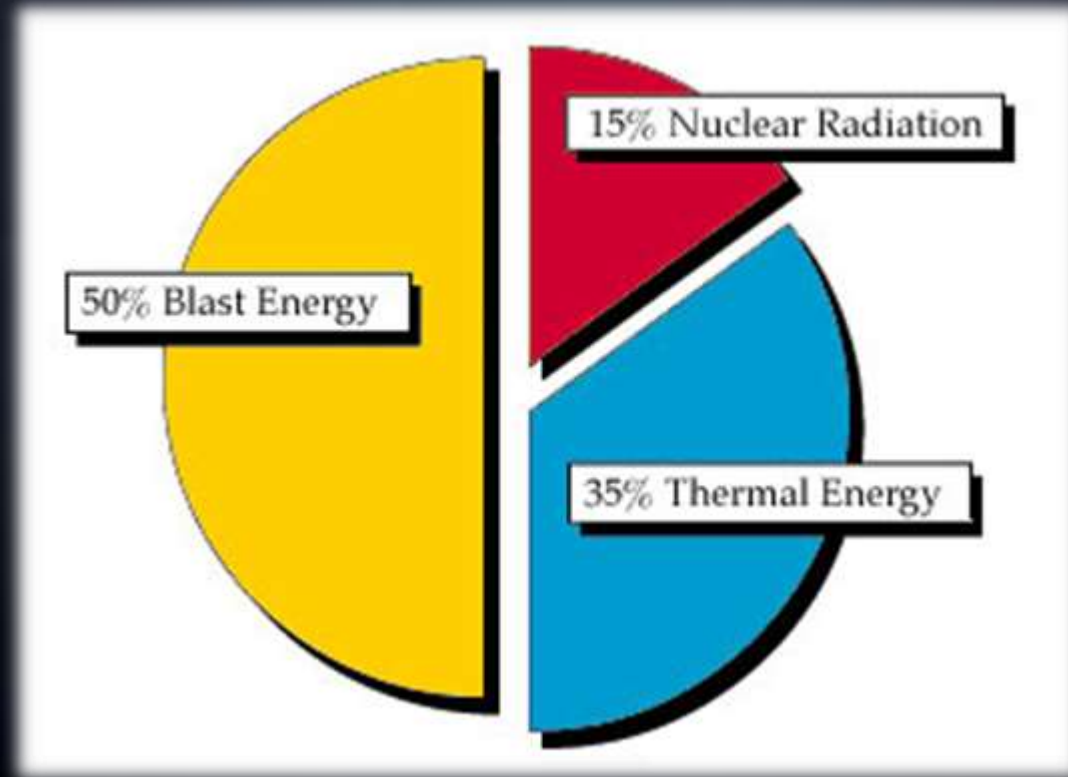


Nuclear weapons are the most dangerous weapons on the earth!

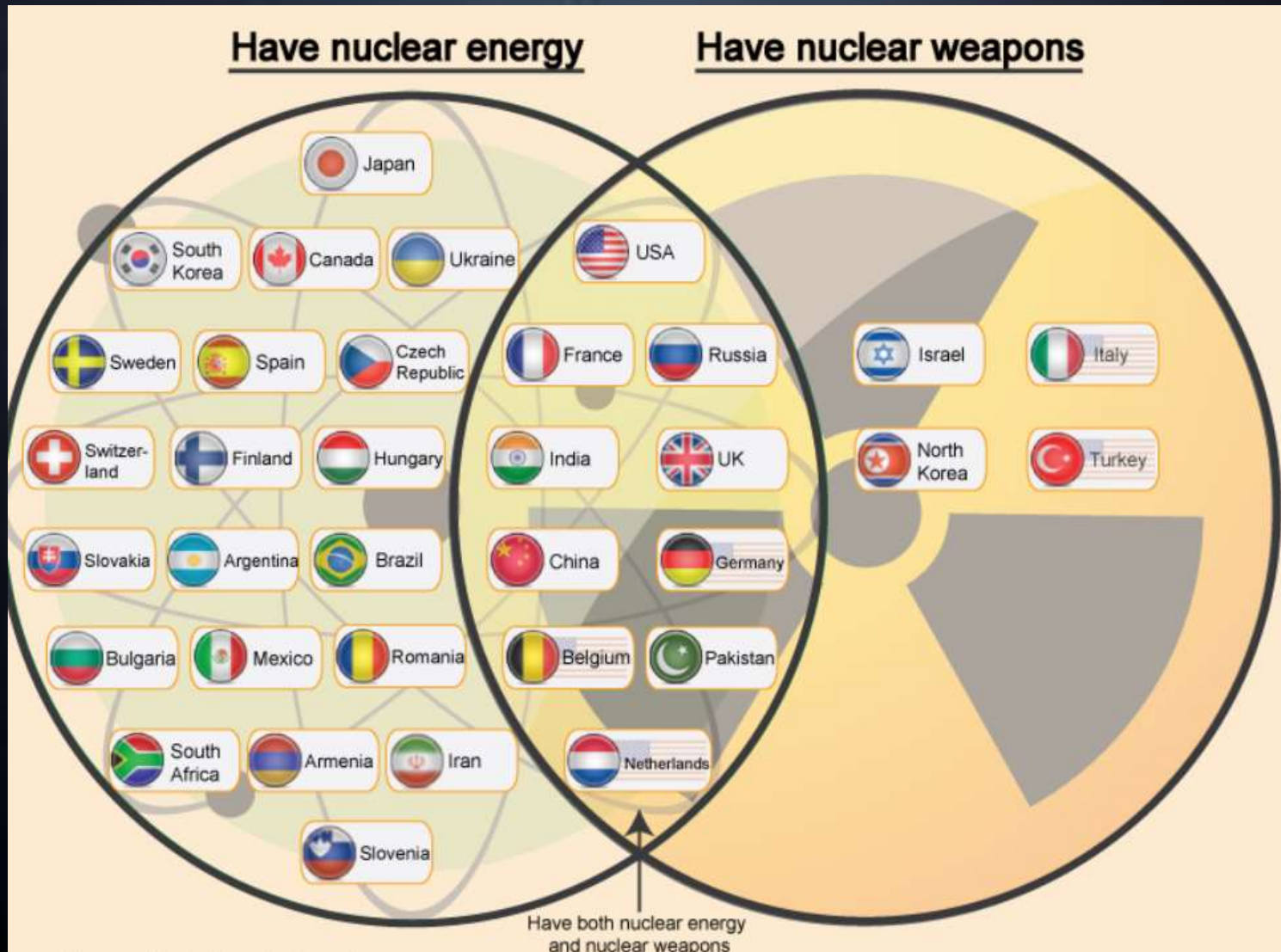


The major striking factors of nuclear explosion

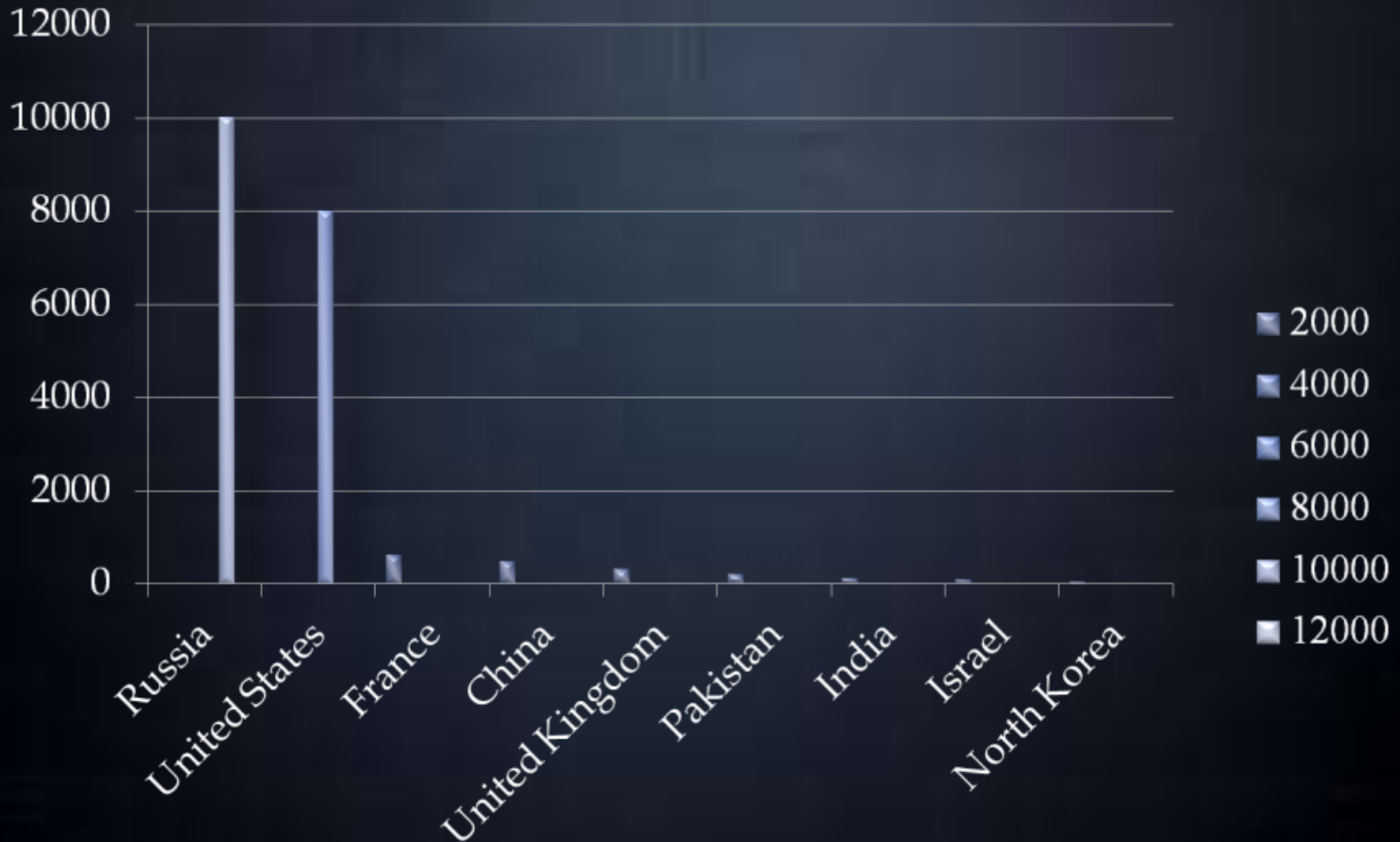
- shock wave (Blast energy)
 - light radiation of nuclear explosion (Thermal energy)
 - penetrating radiation
 - radioactive infection of the district
- } (Nuclear Radiation)



Nine countries together possess more than 16,000 nuclear weapons

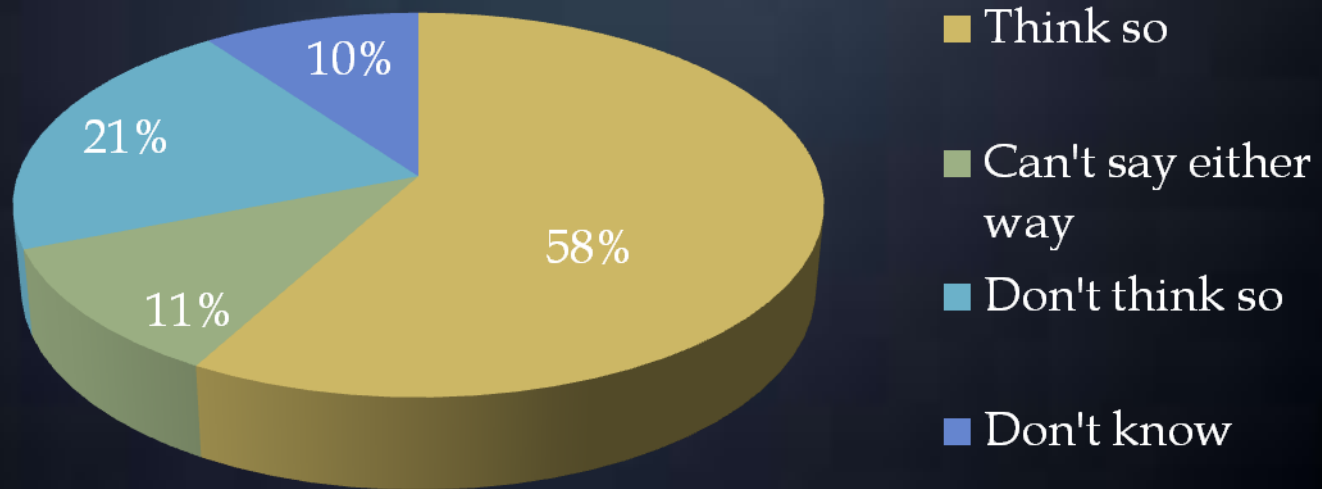


World Nuclear Weapons Stockpiles



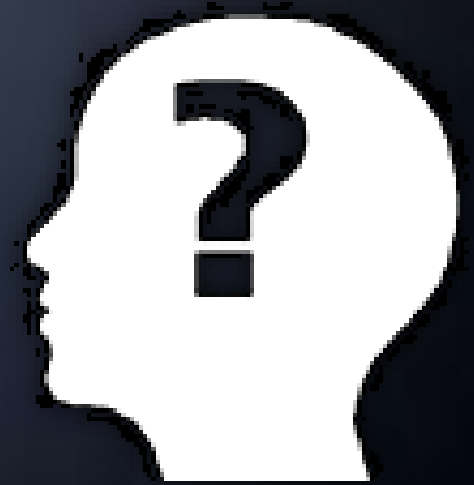
Total Nuclear Weapons \approx 19000

The opinion of people about nuclear power. “Do you think nuclear power is needed ?”



Why people want to develop nuclear weapons?

- They were made for National Defense
- They are powerful
- For intimidating other countries
- It is a statement of development and power



BUT...

ARE THEY
RIGHT ???

Types of nuclear weapons

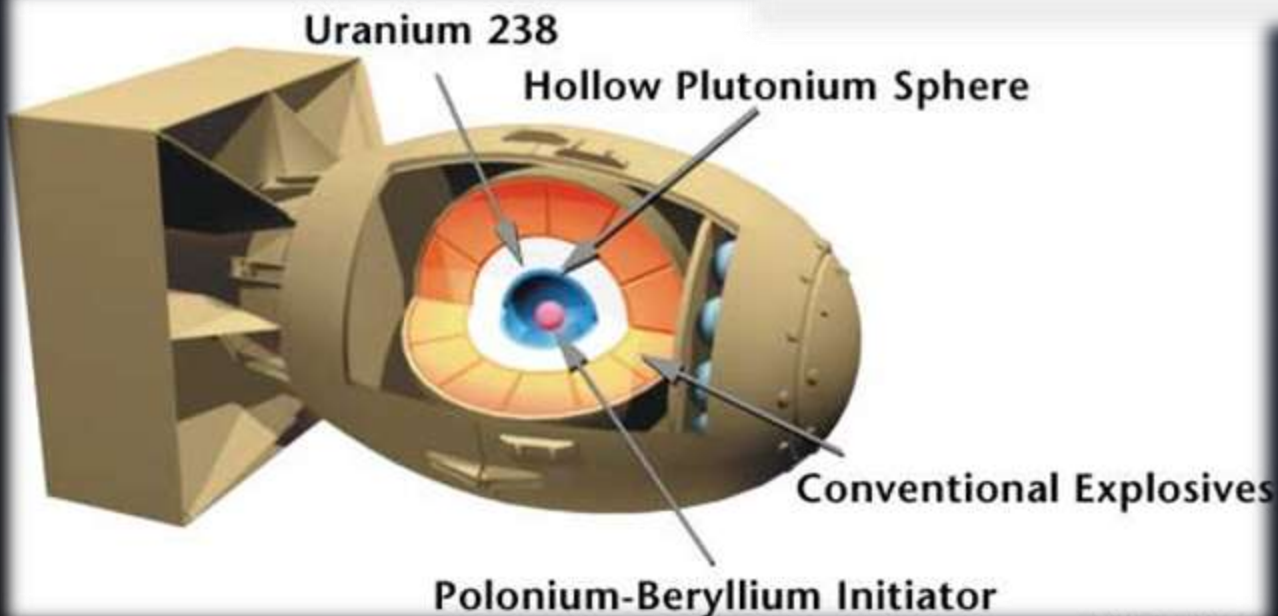
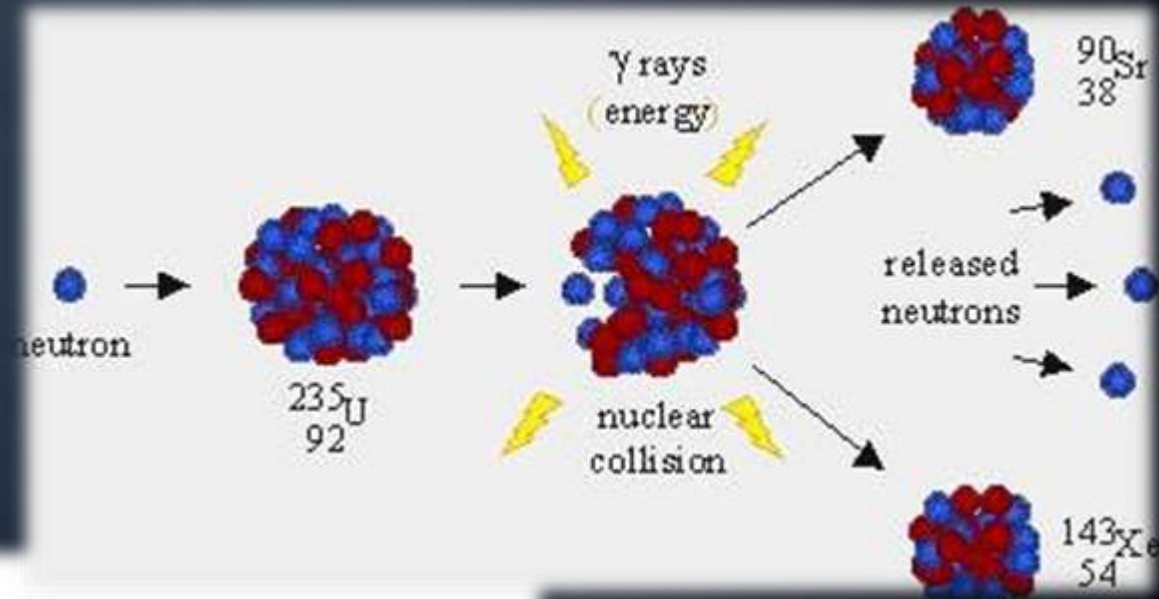


Fission Weapons
(also called
atomic bombs)



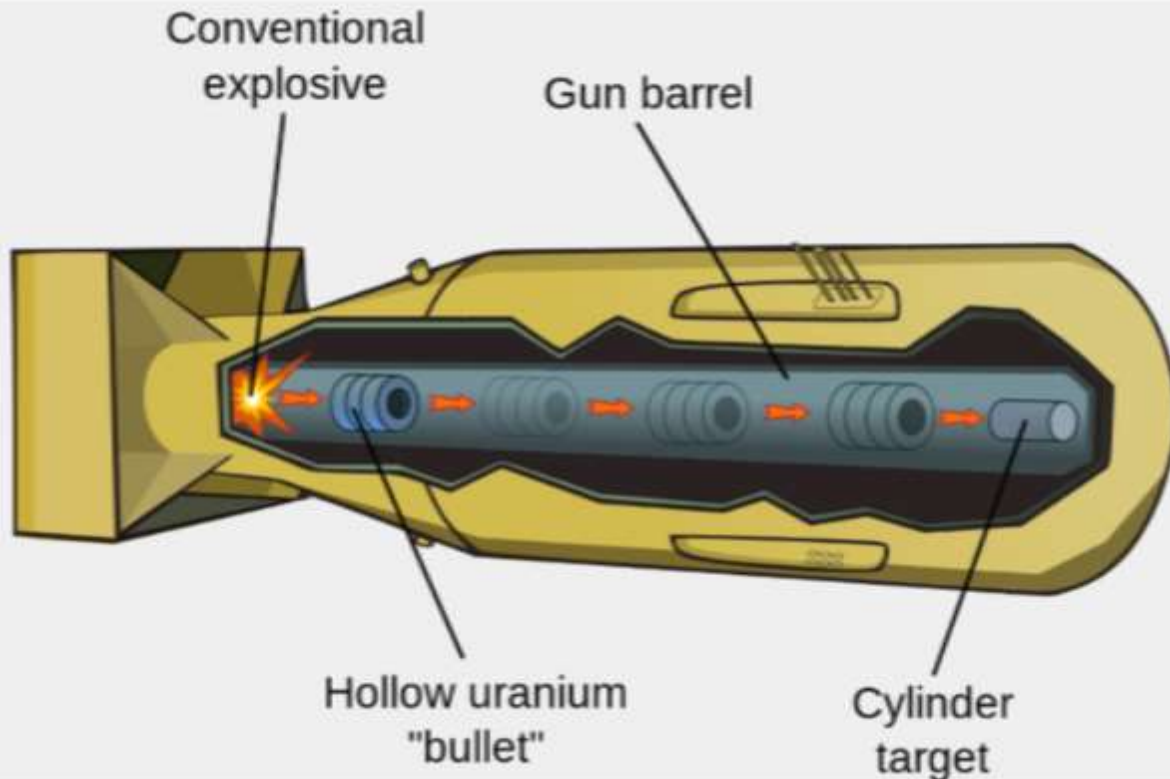
Gun-type design
(HEU)

Fission Weapons (also called atomic bombs)



Gun-type design (HEU)

< 1% of the ore **U-235**
99,3% U-238



What happened at Chernobyl?

On April 26, 1986, a major accident, determined to have been a reactivity accident, occurred at Unit 4 of the nuclear power station at Chernobyl, Ukraine, in the former USSR. The accident destroyed the reactor and released massive amounts of radioactivity into the environment.



August 6, 1945

- US detonated a 15 kiloton bomb over Hiroshima, Japan.
- Deaths - 118,661.
- Injuries - 78,000.



August 9, 1945

- US detonated a 21 kiloton bomb over Nagasaki, Japan.
- Deaths - 73,884.
- Injuries - 74,909.
- 6.7 million square meters leveled



Picture:
Kome & Crean, 1986: "Dazed survivors holding boiled rice balls, about 1.5 km from the hypocentre"

Hiroshima and Nagasaki

- Ground temperatures reached about 7,000 degrees.
- “Black rain” containing radioactive fallout poured down for hours after the explosions.



Conclusion

Nuclear weapons - a huge threat to all humanity.

Steps to prevent nuclear disasters:

- ▣ Disarmament
- ▣ Education
- ▣ Improvement safety at nuclear power plants
- ▣ Support well-known organizations or create your own organization that fight with the using of nuclear power



THANK YOU FOR
YOUR
ATTENTION