Package 'axisandallies'

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Type Package

raid_battle	Title Axis and Allies Spring	
lates your probability of winning a battle. This speeds the game up significantly. License MIT + file LICENSE Encoding UTF-8 RoxygenNote 7.2.3 NeedsCompilation no Author TJ Weaver [aut, cre] Maintainer TJ Weaver <weaverthomasjohn@gmail.com> Repository CRAN Date/Publication 2025-01-27 13:10:01 UTC Contents buy_units info_units land_battle land_simulate raid_battle sea_round .</weaverthomasjohn@gmail.com>	Version 0.1.1	
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buy_units

buy_units Buy Units

Description

Calculates the cost of a purchase during the purchase units phase

Usage

```
buy_units(
  infantry = 0,
  artillery = 0,
  tanks = 0,
  fighters = 0,
  bombers = 0,
  aaguns = 0,
  complexes = 0,
  submarines = 0,
  destroyers = 0,
  carriers = 0,
  cruisers = 0,
  battleships = 0
```

Arguments

infantry	Number of infantry purchased, infantry cost three
artillery	Number of artillery purchased, artillery cost four
tanks	Number of tanks purchased, tanks cost five
fighters	Number of fighters purchased, fighters cost ten
bombers	Number of bombers purchased, bombers cost twelve
aaguns	Number of anti aircraft guns purchased, anti aircraft guns cost five
complexes	Number of industrial complexes purchased, industrial complexes cost fifteen
submarines	Number of submarines purchased, submarines cost six
destroyers	Number of destroyers purchased, destroyers cost eight
carriers	Number of aircraft carriers purchased, aircraft carriers cost fourteen
cruisers	Number of cruisers purchased, cruisers cost twelve
battleships	Number of battleships purchased, battleships cost twenty

Value

Numerical cost of purchase

Examples

```
buy_units(infantry = 3, artillery = 1, tanks = 1, complexes = 1, submarines = 2)
```

info_units 3

info_units

Unit Information

Description

Gives basic information about the units in axis and allies

Usage

```
info_units(unit, write_to_console = TRUE)
```

Arguments

```
unit A unit in axis and allies spring 1942 in all lowercase letters write_to_console
```

If true, writes the output to the console, if false, returns as a vector

Value

Describes the unit's attack, defense, movement, and cost, and other details in several lines of text

Examples

```
info_units("artillery")
```

land_battle

Run a Land Battle

Description

Simulates one land battle for given attacking and defending units

Usage

```
land_battle(
  offense_infantry = 0,
  offense_artillery = 0,
  offense_tanks = 0,
  offense_fighters = 0,
  offense_bombers = 0,
  defense_infantry = 0,
  defense_artillery = 0,
  defense_tanks = 0,
  defense_fighters = 0,
  defense_bombers = 0,
  aagun = FALSE,
```

4 land_battle

```
bombarding_battleships = 0,
bombarding_cruisers = 0,
write_to_console = TRUE
)
```

Arguments

offense_infantry

Number of infantry on the attacking side, which hit when the dice roll is a 1 offense_artillery

Number of artillery on the attacking side, which hit when the dice roll is a 2 or less

offense_tanks Number of tanks on the attacking side, which hit when the dice roll is a 3 or less offense_fighters

Number of fighters on the attacking side, which hit when the dice roll is a 3 or less

offense_bombers

Number of bombers on the attacking side, which hit when the dice roll is a 4 or less

defense_infantry

Number of infantry on the defending side, which hit when the dice roll is a 2 or less

defense_artillery

Number of artillery on the defending side, which hit when the dice roll is a 2 or less

defense_tanks Number of tanks on the defending side, which hit when the dice roll is a 3 or less

defense_fighters

Number of infantry on the defending side, which hit when the dice roll is a 4 or less

defense_bombers

Number of infantry on the defending side, which hit when the dice roll is a 1 or less

aagun Whether or not an Anti-Air gun is present, which rolls one time at the beginning of the battle for each attacking aircraft, and hits if the roll is a 1

bombarding_battleships

Number of bombarding battleships, which bombard at the start of the battle, and hit at 4 or less

bombarding_cruisers

Number of bombarding cruisers, which bombard at the start of the battle, and hit at 3 or less

write_to_console

If true, writes the output to the console, if false, returns as a vector

Value

Offense Loses or Defense Loses and remaining units in lines of text

land_simulate 5

Examples

```
land_battle(offense_tanks = 4, offense_fighters = 3, defense_tanks = 9, aagun = TRUE)
```

land_simulate

Simulate Land Battles

Description

Simulates a number of land battles and gives the percentage of them won and lost. Use to find the probability of winning a particular land battle.

Usage

```
land_simulate(
 offense_infantry = 0,
  offense_artillery = 0,
  offense_tanks = 0,
  offense_fighters = 0,
  offense_bombers = 0,
  defense_infantry = 0,
  defense_artillery = 0,
  defense\_tanks = 0,
  defense_fighters = 0,
  defense_bombers = 0,
  aagun = FALSE,
  bombarding_battleships = 0,
  bombarding_cruisers = 0,
  sample_size = 10000,
  decimals = 1,
  write_to_console = TRUE
)
```

Arguments

```
offense_infantry
```

 $Number\ of\ infantry\ on\ the\ attacking\ side,\ which\ hit\ when\ the\ dice\ roll\ is\ a\ 1$ offense_artillery

Number of artillery on the attacking side, which hit when the dice roll is a 2 or less

offense_tanks Number of tanks on the attacking side, which hit when the dice roll is a 3 or less offense_fighters

Number of fighters on the attacking side, which hit when the dice roll is a 3 or less

offense_bombers

Number of bombers on the attacking side, which hit when the dice roll is a 4 or less

6 raid_battle

defense_infantry

Number of infantry on the defending side, which hit when the dice roll is a 2 or less

defense_artillery

Number of artillery on the defending side, which hit when the dice roll is a 2 or less

defense_tanks Number of tanks on the defending side, which hit when the dice roll is a 3 or less

defense_fighters

Number of infantry on the defending side, which hit when the dice roll is a 4 or less

defense_bombers

Number of infantry on the defending side, which hit when the dice roll is a 1 or less

aagun Whether or not an Anti-Air gun is present, which rolls one time at the beginning of the battle for each attacking aircraft, and hits if the roll is a 1

bombarding_battleships

Number of bombarding battleships, which bombard at the start of the battle, and hit at 4 or less

bombarding_cruisers

Number of bombarding cruisers, which bombard at the start of the battle, and hit at 3 or less

sample_size Number of land battles simulated

decimals Number of decimal places the percentages are rounded to

write_to_console

If true, writes the output to the console, if false, returns as a vector

Value

Percentage of the land battles won and lost.

Examples

land_simulate(offense_infantry = 10, defense_infantry = 6, decimals = 2)

raid_battle

Strategic Bombing Raid

Description

Simulates one strategic bombing raid on an enemy industrial complex

sea_round 7

Usage

```
raid_battle(
  offense_fighters = 0,
  offense_bombers = 1,
  defense_fighters = 0,
  aagun = FALSE,
  write_to_console = TRUE
)
```

Arguments

offense_fighters

Number of fighters brought to the strategic bombing raid if using optional rules for strategic bombing raids which include fighters

offense_bombers

Number of bombers brought to bombing raid

defense_fighters

Number of fighters defending in the strategic bombing raid if using optional rules for strategic bombing raids which include fighters

aagun Is an anti aircraft gun present on the defending side write_to_console

If true, writes the output to the console, if false, returns as a vector

Value

IPC Damage done by strategic bombing raid to industrial complex, number of offense fighters left if using optional rules, number of bombers left, number of defense fighters left if using optional rules in lines of text

Examples

```
raid_battle(offense_bombers = 3, aagun = TRUE)
```

sea_round

Sea Round

Description

Simulates one round of sea combat

Usage

```
sea_round(
  offense_submarines = 0,
  offense_destroyers = 0,
  offense_carriers = 0,
```

8 sea_round

```
offense_cruisers = 0,
  offense_battleships = 0,
  offense_fighters = 0,
  offense_bombers = 0,
  defense_submarines = 0,
  defense_destroyers = 0,
  defense_carriers = 0,
  defense_cruisers = 0,
  defense_battleships = 0,
  defense_fighters = 0,
  write_to_console = TRUE
)
```

Arguments

offense_submarines

Number of submarines on the attacking side, which hit when the dice roll is a 2 or less

offense_destroyers

Number of destroyers on the attacking side, which hit when the dice roll is a 2 or less

offense_carriers

Number of carriers on the attacking side, which hit when the dice roll is a 1

offense_cruisers

Number of cruisers on the attacking side, which hit when the dice roll is a 3 or less

offense_battleships

Number of battleships on the attacking side, which hit when the dice roll is a 4 or less

offense_fighters

Number of fighters on the attacking side, which hit when the dice roll is a 3 or less

offense_bombers

Number of bombers on the attacking side, which hit when the dice roll is a 4 or less

defense_submarines

Number of submarines on the defending side, which hit when the dice roll is a 1 defense_destroyers

Number of destroyers on the defending side, which hit when the dice roll is a 2 or less

defense_carriers

Number of carriers on the defending side, which hit when the dice roll is a 2 or less

defense_cruisers

Number of cruisers on the defending side, which hit when the dice roll is a 3 or less

defense_battleships

Number of battleships on the defending side, which hit when the dice roll is a 4 or less

sea_round 9

```
defense_fighters
```

Number of fighters on the defending side, which hit when the dice roll is a 4 or less

write_to_console

If true, writes the output to the console, if false, returns as a vector

Value

Number of offensive air hits, offensive submarine hits, offensive other hits, defensive air hits, defensive submarine hits, and defensive other hits in several lines of text

Examples

```
sea_round(offense_submarines = 1, offense_bombers = 1, defense_battleships = 1)
```

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