

Numeracy for a Digital World

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Bhaile Átha Cliath
Dublin City University

Background

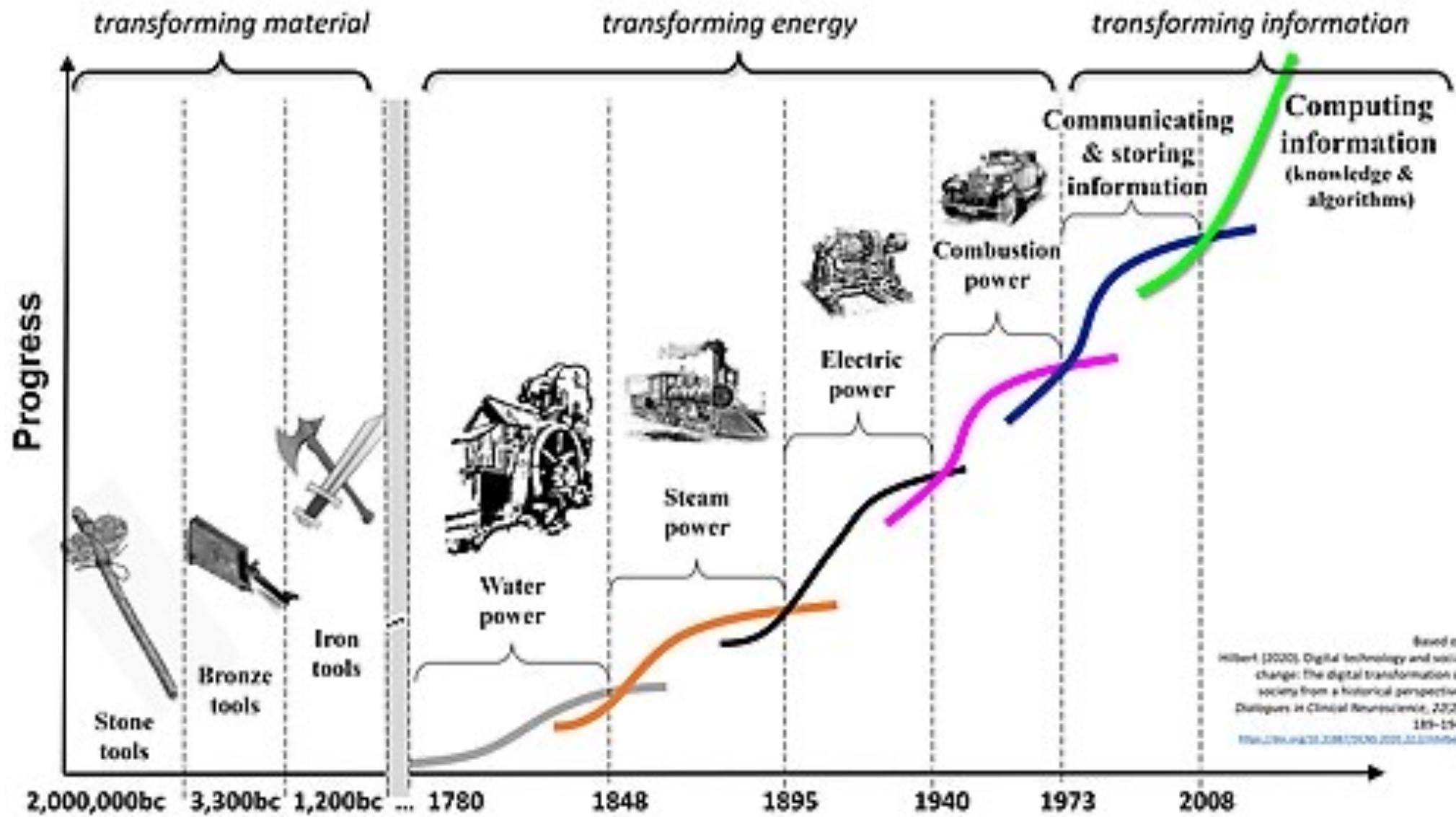
- Post-primary mathematics and physical education teacher.
- Experience of teaching mathematics to adult learners.
- Mathematics education lecturer at DCU.



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Information Age

- We live in the **information** age, which is a period in human history characterized by the shift from industrial production to one based on information and **computerization**.
- The modern age regarded as a time in which **information** has become a **commodity** that is **quickly** and **widely disseminated** and **easily available**, especially through the use of **computer technology**.





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INFORMATION AGE



BLOGS



ONLINE
VIDEO



SMARTPHONES



E-COMMERCE
PORTALS



SOCIAL MEDIA
NETWORKS



ONLINE
MUSIC



TABLETS



SMART
WATCHES



PC / LAPTOPS



The Challenge

–In an era when a single human invention – **the mobile phone** – has reached **5 billion individual subscribers** in less than two decades, it seems paradoxical that a technology much more deeply embedded in the modern economy – **writing** – still has not reached about a billion adults aged 15 and over, even after a 5,000-year journey.

(Matthews, 2019)



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GAA should revise cashless ticketing system for elderly, says Age Action

Fears many older people won't be able to access tickets under the Association's new system



A closed ticket sales hut before January's O'Byrne Cup Group A match between Longford and Dublin at Glennon Brothers Pearse Park in Longford. Picture: Stephen McCarthy/Sportsfile



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The Need: Digital Numeracy

–Digital numeracy is becoming increasingly important in times of growing public exposure to ‘big data’, ‘open data’, and the use of ***algorithms*** in many digital environments, alongside digital literacy.



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28th April

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WEATHER 9°C

RTÉ

Ireland's National Public Service Media

SEARCH MENU

NEWS SPORT ENTERTAINMENT BUSINESS LIFESTYLE CULTURE PLAYER TV RADIO

Ukraine Covid-19 This is Art! Competition

Modular homes 'not a solution' for refugees - developer

Prime Time

► 89 buildings found for accommodating refugees - O'Brien

Ireland

US and allies promise Ukraine arms amid Russian warning

Ukraine

The United States and its allies have pledged new packages of ever heavier weapons for Ukraine during a meeting at a German air base, brushing off a threat from Moscow that their support for Kyiv could

City hold slender lead after seven-goal thriller

Soccer

Champions League recap: Man City 4-3 Real Madrid

Soccer

PRIME TIME



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5°C Dublin

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CAO Open Evening

TUS

World is 'galvanised' against Russian invasion, says US at talks in Germany

Athlone | Limerick | Thurles | Clonmel | Ennis

FIND OUT MORE

Miriam Lord: Turf roars

Irish Times readers on remote working: 'I can't believe how much work I'm doing'

WAR IN UKRAINE

Rockets fly over Europe's biggest plant as Russia warns of nuclear risk

Just quarter of refugee housing offers judged suitable, Red Cross says

Childcare a growing issue for Ukrainian refugees looking for work

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- 6 campuses
- 4 counties

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We use necessary cookies to make our site work. We'd also like to set optional analytics and social media cookies to help us improve it. We won't set optional cookies unless you enable them. Using this tool will set a cookie on your device to remember your preferences.

For more detailed information about the cookies we use, see our Cookies page [\[link\]](#)

Necessary cookies

Necessary cookies enable core functionality such as the cookie set to remember your cookie preferences. You may disable these by changing your browser settings, but this may affect how the website functions.

Analytics Cookies

Off

Analytical cookies help us to improve our website by collecting and reporting information on its usage.

Social Media Cookies

Off

We also use social media buttons and/or plugins on this site that allow you to connect with your social network in various ways. For these to work the following social media sites including; Facebook, Twitter, will set cookies through our site which you can accept or disable here.

The GAA.ie homepage features a dark blue header with a search bar, social media links for Facebook and Twitter, and navigation tabs for "Now", "Tickets", "News", and "Features". A "RESEARCH PROJECT" section is visible. Below, two "PLAYER OF THE WEEK" banners are displayed: one for Hurling featuring Aaron Gillane and one for Football featuring Michael Murphy. The footer shows a calendar for May with dates from 1st to 21st.

€10 flights to Australia in bid to attract Irish working holidaymakers

Only 200 return flights are being made available at the special €10 price.

Applicants must also be Irish or British citizens, have a Working Holiday Visa and be available to travel before September 30 this year.

Flights are with Qatar Airways, via Trailfinders, and applicants will also need to buy a “starter pack” including some accommodation on arrival and access to a tax file number and bank account.

Three-night starter packs are priced from £171/€218 with Trailfinders.



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Apple AirPods

Add AirPods to your Watch SE

TECH CREDIT Powered by humm plan
from just **€18 per month***

*Standard fees, T&C's apply. Subject to assessment - Finance provided by FlexiFi Europe Limited. €18 is an example based on financing AirPods 3rd Generation (€199) with the Apple Watch SE | 44mm (€329). 12 monthly payments. Total amount payable € 581.32.

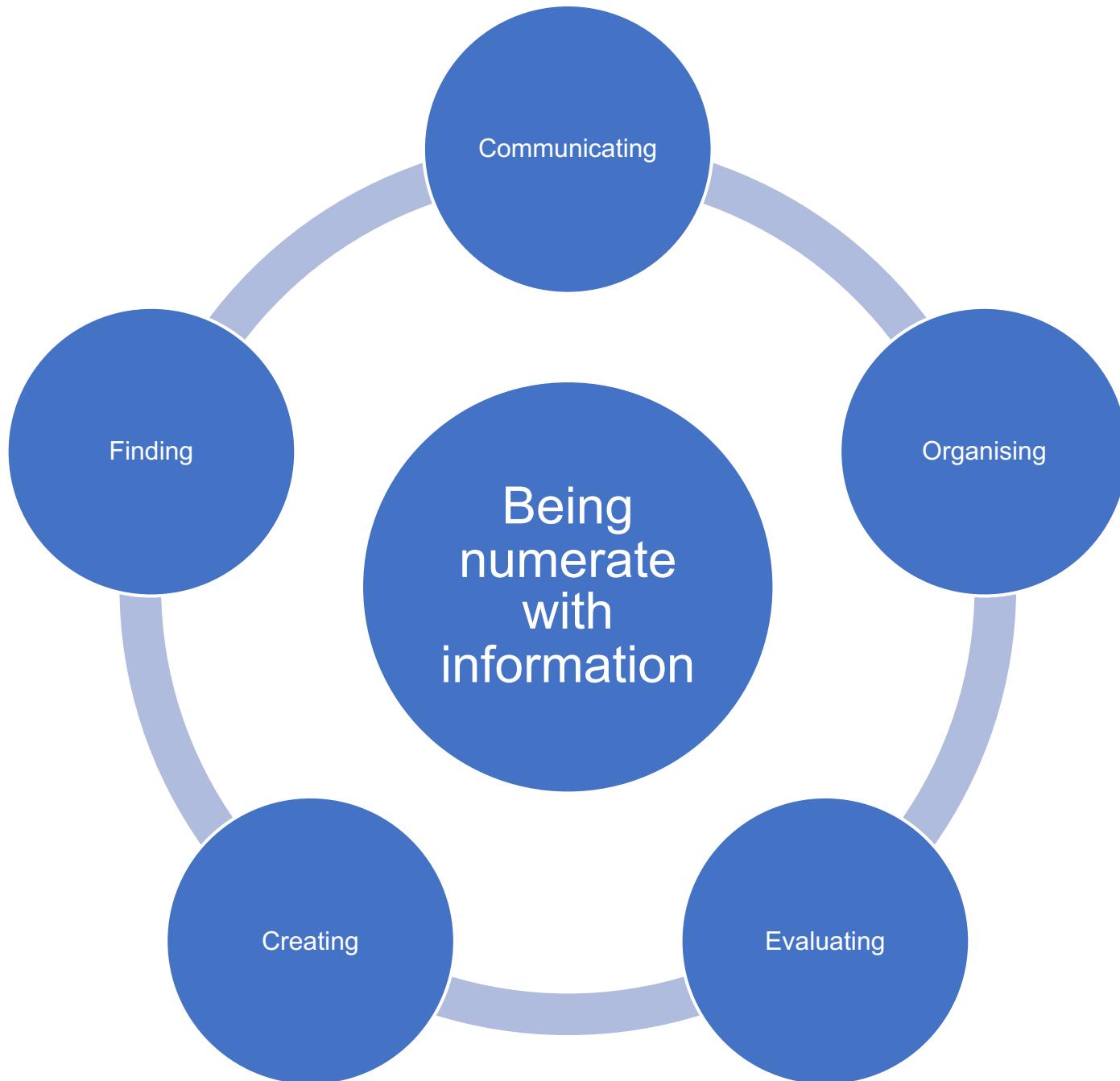


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Switch to Virgin Mobile & Save Today

Get Unlimited Data, Calls & Texts for €5 a month for 5 months on a 30 day contract €25 a month after. Offer Ends 11/06/22. [Click Here For More Details.](#)





1623: First Adding Machine



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1773: First Functional Calculator



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1961: First All-Electronic Desktop Calculator



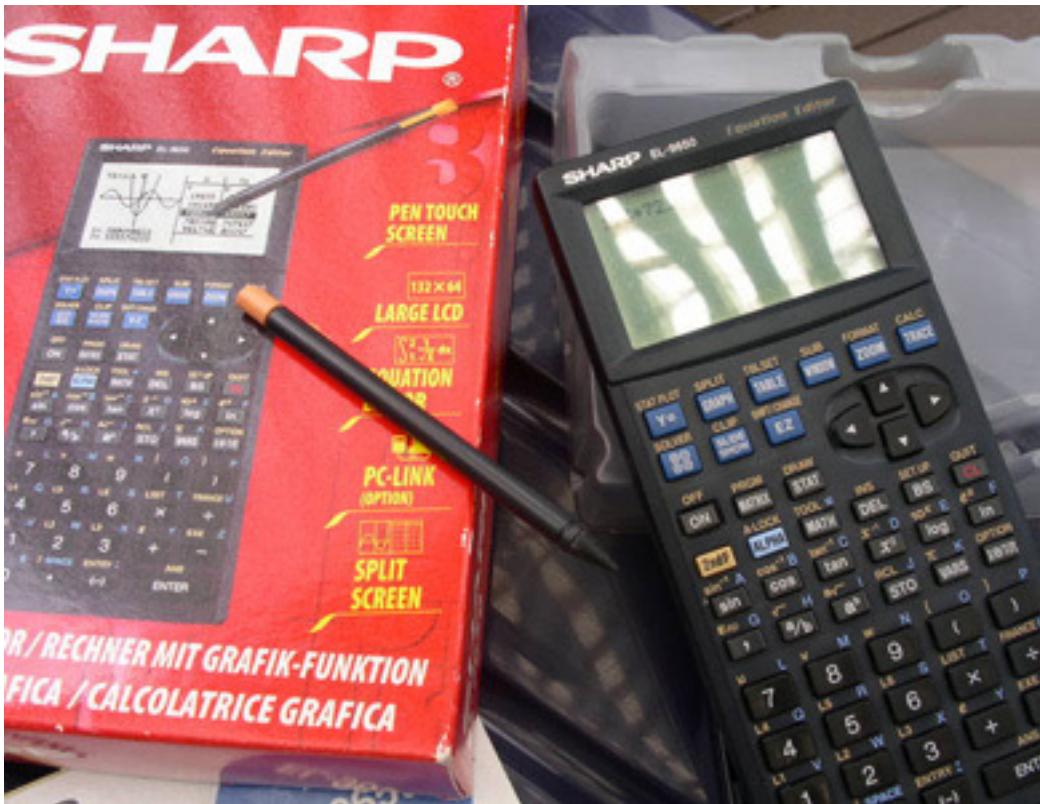
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1967: First Handheld Calculator



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2003: First Graphing Calculator with Touch Functionality



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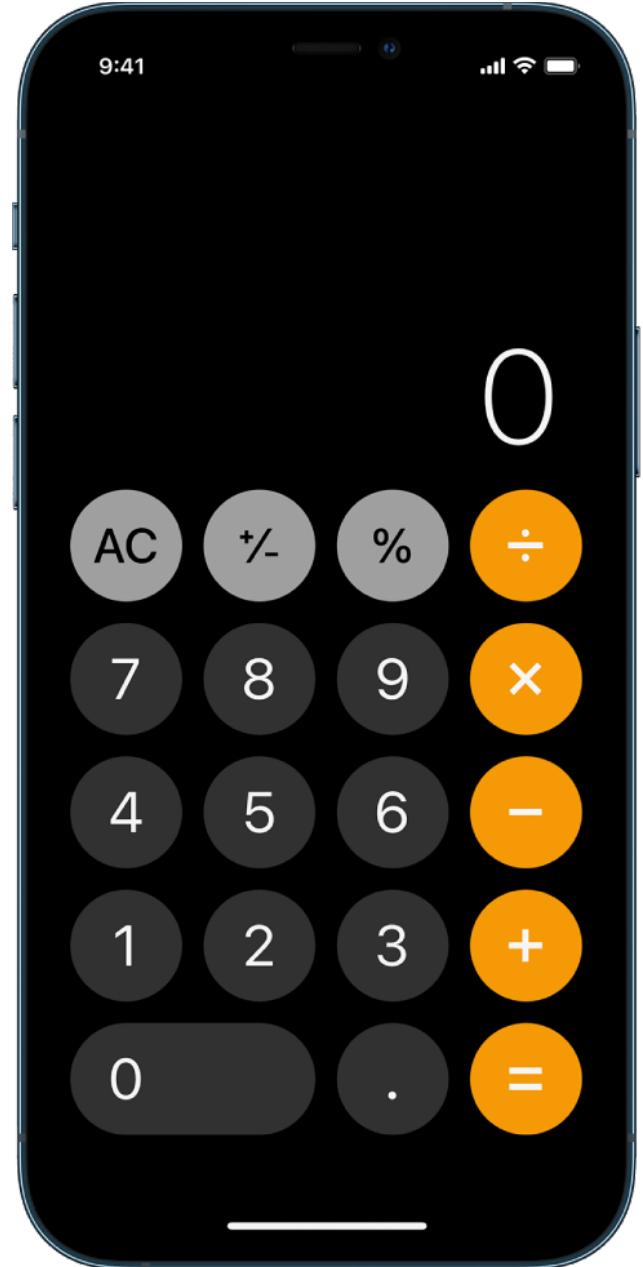
2010: First Colour Graphing Calculator



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Advantages / Disadvantages

- Efficient to perform calculations.
- Accuracy of calculations.
- The understanding of number.
- The understanding of how calculations are performed.
- The ability compare numbers and their values.



iPhone SE | 256GB | 5G | Midnight (2022)

MMXM3B/A



Preferences

SHOP WITH
CONFIDENCE

NO ADDITIONAL VAT OR CUSTOMS
DUTY ON ONLINE ORDERS.



Live Pricing i

€699

from €62.53 per month with TechCredit

★★★★★ Write a review.

Want Product Care™? [Learn More:](#)

No Thanks

Prior to conclusion of contract, this section should always be read in conjunction with the Terms and Conditions and the Insurance Product Information Document (IPID) for Product Care. For full details of cover and exclusions, including contact details and complaints procedure please read the terms and conditions here: [Product Care](#) | [Product Care mobile](#). Read the IPID here: [Product Care](#) | [Product Care mobile](#).

- +

ADD TO CART

FIND IN STORE

The Tech Credit Contract is for 12 months duration, how much does the iPhone cost in total if Tech Credit is used? Which is the cheaper option, pay in instalments or purchase with one payment?



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However, there is more...

Get this item from €62.53 per month with



12 Month Contract

12 MONTHLY PAYMENTS

Account Keeping Fee	12 x €1.50
Remaining Installments	12 x €61.03
Total	12 x €62.53

UPFRONT

Total Upfront Payment	1 x €0
Tech Credit Application Fee	1 x €10.00

TOTAL AMOUNT PAYABLE €760.36

Choose Tech Credit as the payment option on checkout to apply or pay with Tech Credit finance.

Close Payment Breakdown



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However, there is more...

Get this item from €62.53 per month with

TECH CREDIT
Powered by 

12 Month Contract

12 MONTHLY PAYMENTS

Account Keeping Fee	12 x €1.50
Remaining Installments	12 x €61.03
Total	12 x €62.53

UPFRONT

Total Upfront Payment	1 x €0
Tech Credit Application Fee	1 x €10.00

TOTAL AMOUNT PAYABLE **€760.36**

Choose Tech Credit as the payment option on checkout to apply or pay with Tech Credit finance.

Close Payment Breakdown

How much should you save per month for 12 months to purchase the phone with one payment?

How much should you save per month for 6 months to purchase the phone with one payment?



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Personal loan



More flexible terms for personal loans at Bank of Ireland. We have the personal loan to suit your needs; whether it's a holiday you're planning or that big day out. Use our personal loan calculator to find the terms and payment options that are right for you.

Features

- Variable rates from 6.8% APR ¹
- Repay your loan over 1-5 years
- Defer loan repayments ²

Benefits

- Borrow up to €65,000
- Money paid into your account
- Quick and easy application

[Apply Online](#)[Find Out More](#)

Car loan



Thinking of buying a car? With a variable rate loan from Bank of Ireland you have the option of making extra repayments and clear your loan early.

Features

- Variable rates from 6.8% APR ³
- Repay your loan over 1-5 years
- Defer loan repayments ²

Benefits

- Borrow up to €65,000
- Money paid to your account
- Quick and easy application

[Apply Online](#)[Find Out More](#)

Interest Rates

- APR stands for Annual Percentage Rate. Variable rates from 6.8% to 8.5% APR.
- Rate offered depends on loan amount and may differ from advertised rate. Lending criteria, terms and conditions apply.
- The repayments on a personal loan of €20,000 over 5 years with 60 monthly instalments are €391.92 per month at 6.6% variable (Annual Percentage Rate of Charge (APRC) 6.8%). The total cost of credit is €3,515.20.
- Variable rates are correct as at 30th June 2020 and are subject to change.



APR

- Annual percentage rate, or APR, is the total cost of borrowing from a financial institution over one year.
- Annual percentage rate is a good way to calculate the cost of borrowing because it takes into account all associated costs of borrowing, including extra charges like late fees, closing fees and administrative fees.
- APR does not take into account the compounding effect of interest where it applies.
- APR is used to compare costs across different lenders.



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Loan type

Personal

Home improvement

Loan amount

€ 20,000

Repayment term

3 years

[Update Filters](#)

WE FOUND 11 RESULTS FOR YOU				SORTED BY MONTHLY PAYMENT
IRELAND'S LOWEST RATE OVER €20,000				
Avant Money Personal Loan				
5.9% APR 3 Year fixed rate	36 Repayments	€21,806.06 Total repayment	€605.72 Monthly payment	Go to site
Avant Money Refinance Loan				
5.9% APR 3 Year fixed rate	36 Repayments	€21,806.06 Total repayment	€605.72 Monthly payment	Go to site
Revolut Personal Loan				
5.99% APR Variable rate	36 Repayments	€21,845.12 Total repayment	€606.81 Monthly payment	
Our calculations may differ slightly to those in the Revolut app.				
KBC Personal Loan				
6.3% APR 3 Year fixed rate	36 Repayments	€21,946.23 Total repayment	€609.62 Monthly payment	Go to site
Available to KBC current account customers.				



Personal Loan

6.8% APR

Variable rate

36

Repayments

€22,088.16

Total repayment

€613.56

Monthly payment

[Go to site >](#)

An Post Money Personal Loan

7.2% APR

3 Year fixed rate

36

Repayments

€22,231.51

Total repayment

€617.54

Monthly payment

[Go to site >](#)

KBC Personal Loan

7.3% APR

3 Year fixed rate

36

Repayments

€22,254.56

Total repayment

€618.18

Monthly payment

[Go to site >](#)



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Loan Amount

400

Repayment Terms (Weeks)

40 Weeks

▼



How much will be repaid at the end of loan?

Do you think the APR is high for this loan?

APR Representative

25 Weeks - 152.3%

30 Weeks - 150.8%

40 Weeks - 147%

50 Weeks - 143.1%

WARNING: THIS IS A HIGH COST LOAN



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How to calculate your credit card interest

The formula to determine how much interest you owe on your outstanding balance varies by bank, but generally works like this: Let's say your card's APR is 17 percent, and your average daily balance during a 25-day billing cycle is \$2,000.

Find your daily rate by dividing the Annual Percentage Rate by 365 days.

$$\frac{17\%}{365} = 0.0466\%$$

Your card's APR Days Your daily rate

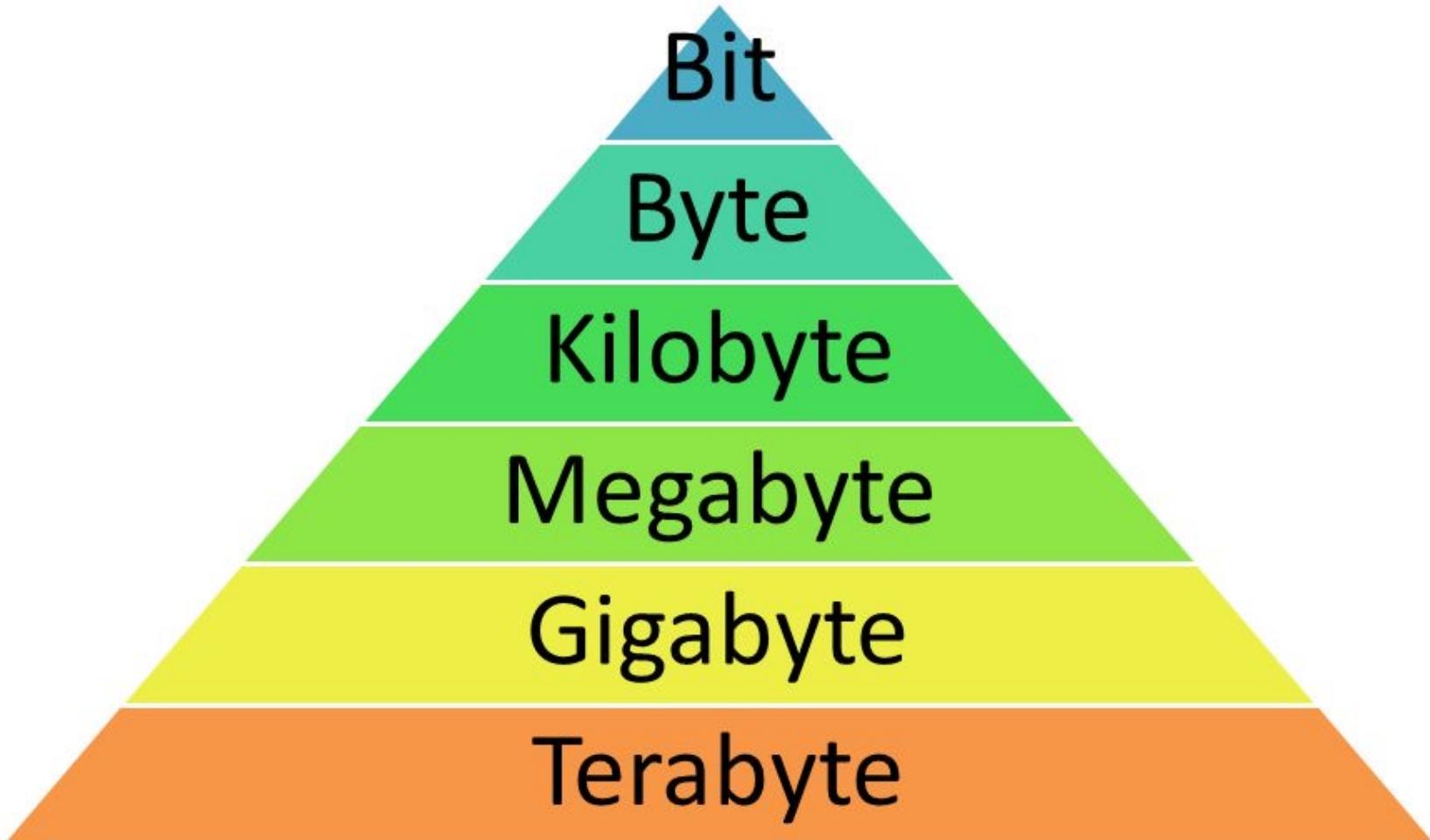
Multiply the daily rate by the days in the billing cycle and the balance.

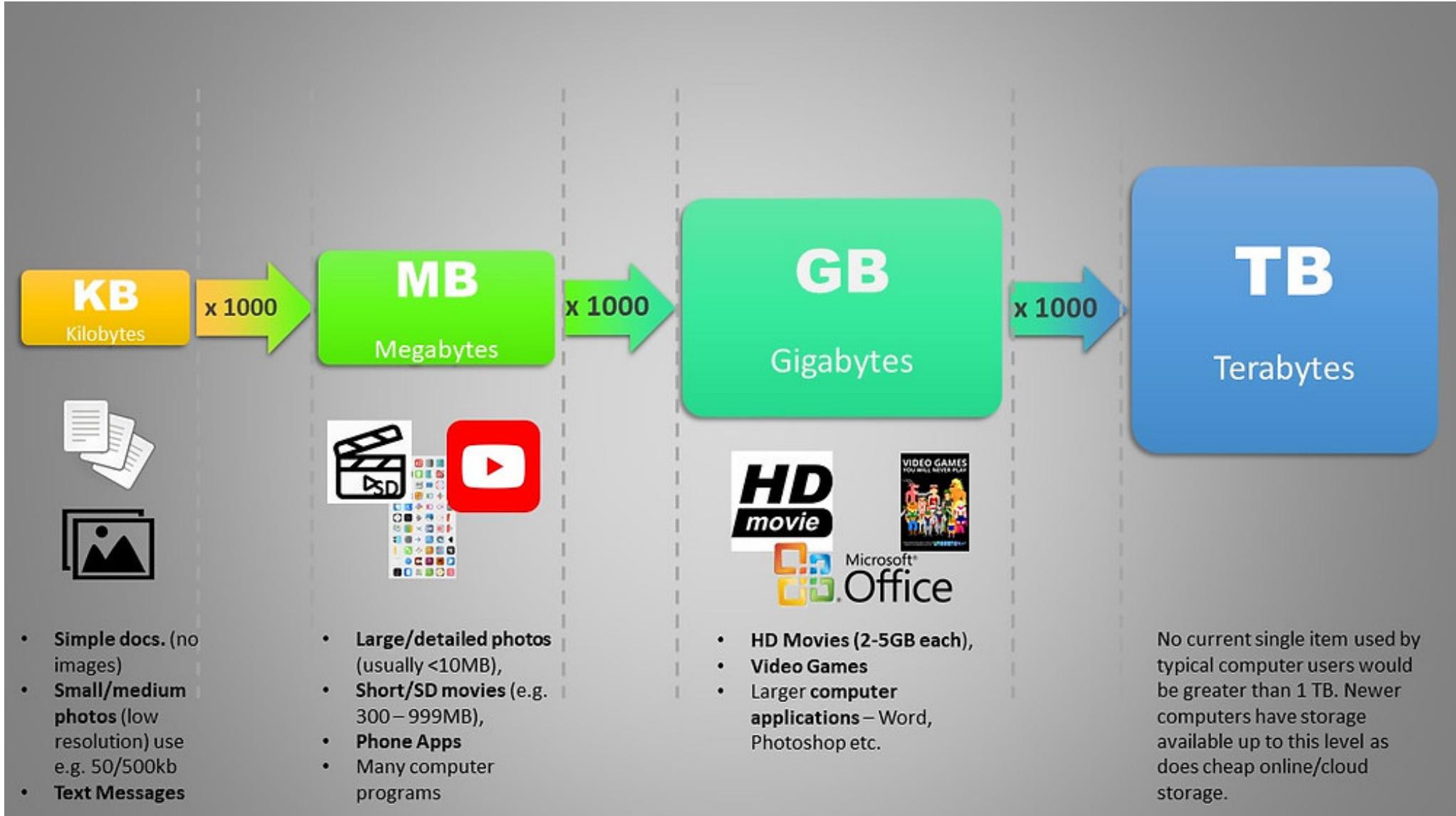
$$0.0466\% \times 25 \times \$2,000 = \$23.30$$

Your card's daily rate Days in the billing cycle Your balance Your monthly interest charge



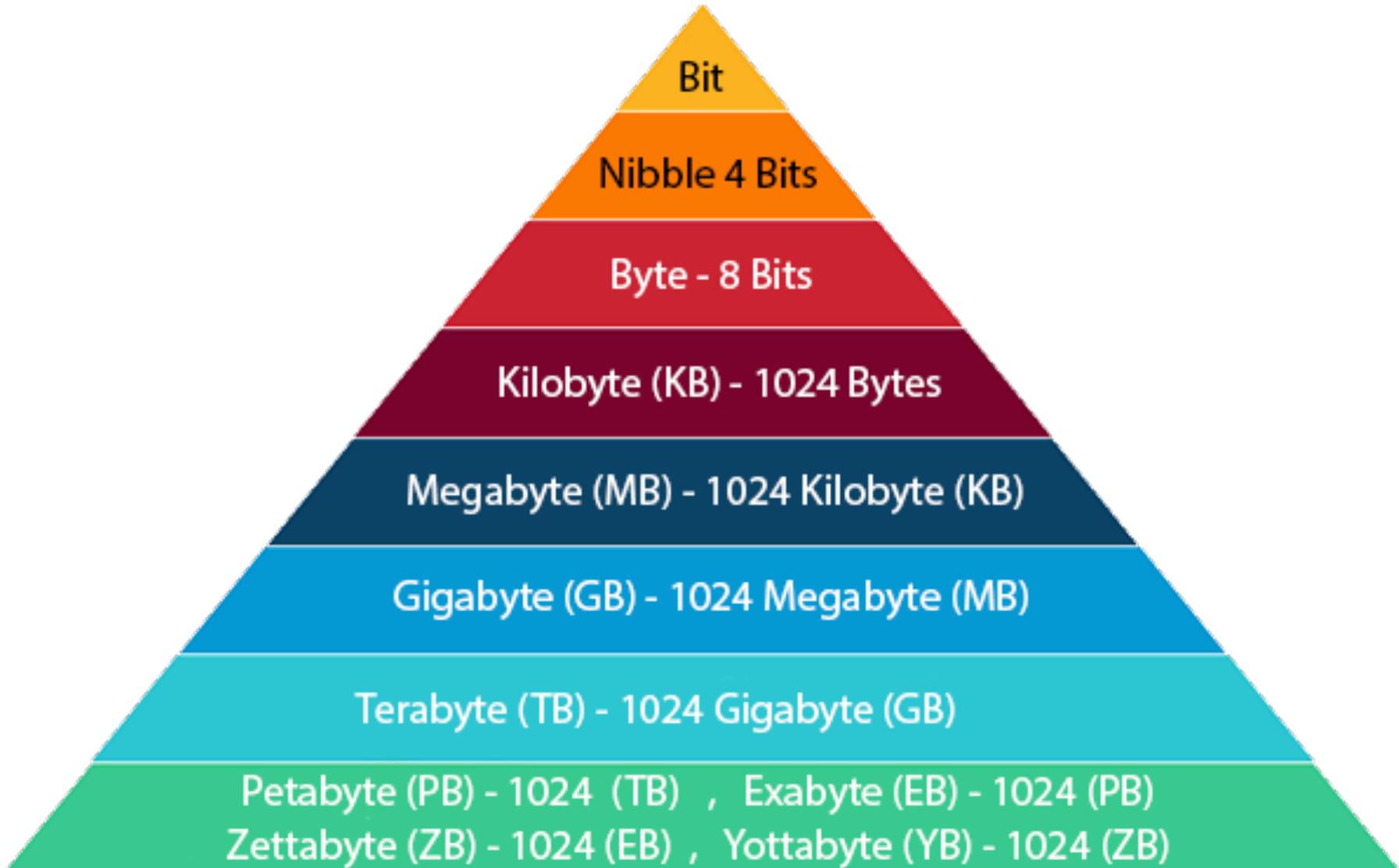
Types of Units of Storage



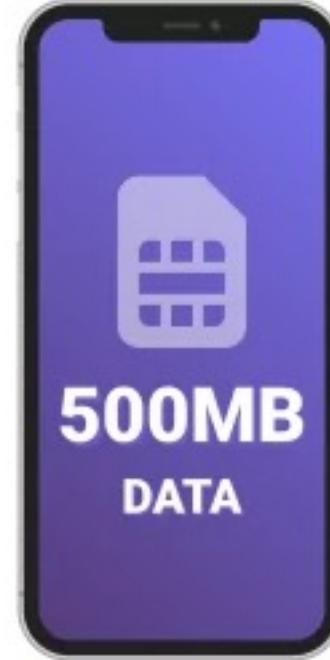




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Comparing Mobile Phone Plans



- A 500MB data plan will allow you to browse the internet for around 6 hours, to stream 100 songs or to watch 1 hour of standard-definition video.

Apple iPhone SE

[Read reviews](#)

 [Compare](#)



Colour

[White](#)

[Red](#)

Capacity

[64 GB](#)

 [In stock](#)

 [FREE delivery to you](#) 

[Order by 9pm for FREE next day Delivery!](#)

BESTSELLER for iD in last 24 hours



Unlimited
Data

Unlimited
Minutes

Unlimited
Texts

iD 5G

Unlimited Data

Roaming

Bill Capping

[Full plan details](#)

£24.99 per month

£0.00 upfront

Compare

Add to basket

ONLINE ONLY - Not available in stores

BESTSELLER for Vodafone in last 24 hours



30 GB
Data

Unlimited
Minutes

Unlimited
Texts

✓ 24GB Extra Data

Vodafone Superfast 5G

VeryMe

Vodafone Roaming

[Full plan details](#)

£23.00 per month

£49.00 upfront

Compare

Add to basket

ONLINE ONLY - Not available in stores



100 GB
Data

Unlimited
Minutes

Unlimited
Texts

iD 5G

Roaming

Data Rollover

Bill Capping

[Full plan details](#)

£23.99 per month

£29.99 upfront

Compare

Add to basket

Double Data! Was 50GB, now 100GB!



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Reviews



1. The Twelve Hotel

Hotels.com

€165

[View deal](#)

✓ Free cancellation

Expedia.ie ↗

€165

FindHotel ↗

€161

ebookers.com ↗

€165

[View all 13 deals from](#)

€161 ↴

2,732 reviews

#1 Best Value of 2,780 places to stay in Ireland

Free Wifi

Free parking

Taking safety measures



2. The Lake Hotel

Booking.com

€194

[View deal](#)

✓ Free cancellation

Hotels.com ↗

€194

Trip.com ↗

€165

Expedia.ie ↗

€194

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€165 ↴

3,803 reviews

#2 Best Value of 2,780 places to stay in Ireland

Free Wifi

Free parking

Taking safety measures



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9.2

Superb

108 verified Hotels.com guest reviews

"Our stay was perfect from beginning to end. Staff extremely polite and helpful. Room..."

Apr 19, 2022

"Cannot fault this hidden gem, top class service and food every time we stay. "

Apr 15, 2022

[See all 108 reviews](#)



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Your choices for 2 guests

Check in
Sun, 8 May

Check out
Mon, 9 May

Guests
1 room, 2 guests

Free cancellation on all rooms!

Get this fantastic price when you pay now or pay at the property!



Superior Room, 1 King Bed

Sleeps 3 people (including up to 2 children)

[SHOW ROOM INFORMATION](#)

Options

Free cancellation

Until 05/05/2022

✓ Pay at property available

✗ Free WiFi

✗ Breakfast for 2 people

✓ Welcome Gift Upon Arrival

Hotels.com loyalty

Hotels.com® Rewards

✓ Collect

✓ Redeem

Today's Price including taxes & fees

€165

[Price details](#)

[RESERVE](#)

X Price details

✗ Breakfast included

1 room x 1 night

€152

Taxes and fees

€14

Total price

€165



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Stay In 'Ireland's Hotel Of the Year'

ARRIVING	DEPARTING
08 May	09 May

▼ ▼

BOOK & SAVE
€20 Always By Booking Direct

Book Direct Guests
Complimentary use of EV Chargers
Join 83% of guests who booked directly

PRIVILEGE LOGIN

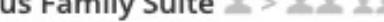
This image shows a screenshot of a hotel booking website. At the top, it says 'Stay In 'Ireland's Hotel Of the Year''. Below that is a table for selecting travel dates. The 'ARRIVING' column shows '08 May' and the 'DEPARTING' column shows '09 May'. Each date has a dropdown arrow below it. A large red rectangular overlay covers the middle portion of the screen. It contains the text 'BOOK & SAVE' in white capital letters, followed by '€20 Always By Booking Direct'. Below this, there are three lines of text: 'Book Direct Guests', 'Complimentary use of EV Chargers', and 'Join 83% of guests who booked directly'. At the bottom of the red box is a button labeled 'PRIVILEGE LOGIN'. The background of the website shows a blurred landscape with hills and water.

For the claim by the hotel to be correct, how much should the overnight stay cost?

BEST AVAILABLE SLEEP 1 - 25 NIGHTS

✓ Breakfast Included ✓ Free Cancellation 72 Hours Prior to Arrival ✓ Luxury Bedding

Ideal coastal break along the Wild Atlantic Way. Choose from any of our luxurious rooms with the cosiest bedding for the ultimate night slumber. Enjoy cooked to order breakfast with the best of local produce. Air Conditioning, Chromecast, Entertainment Tablet, Extensive Room Service Menus Fully Fl... [Read more](#)

	SUN 8 May	MON 9 May	TUE 10 May	WED 11 May	THU 12 May	FRI 13 May	SAT 14 May
Corporate King Guest Room (Single Occupancy) 	 €140	€140	€140	✗	✗	✗	✗
Splendid King Guest Room 	 €155	€155	€155	€160	€160	€205	✗
Splendid Twin Guest Room 	 €155	€155	€155	✗	✗	✗	✗
Luxury Suite 	 €195	€195	€195	€200	€200	✗	✗
Splendid Triple Room 	 €195	€195	€195	✗	✗	✗	✗
Marvellous Family Suite 	 €225	€225	€225	€230	€230	✗	✗
Funnymoon Suite 	 €285	€285	€285	✗	€290	✗	✗
Suite X11 	 €550	€550	€550	€550	€550	✗	✗
2 Bedroom Suite 	✗	✗	✗	✗	✗	✗	✗

UNIDAYS 10% Student Discount with UNIDAYS - [Find out More](#)

SPRING SALE

1 people looking at this right now

adidas Predator Edge+ FG



Closer Look

adidas Predator Edge+ FG

White/Hi-Res Blue/White

£230.00

FG - Firm Ground

10

1

Customise

Delivered by our partner ADIDAS



This item will be fulfilled by our partner ADIDAS. Please note items fulfilled by

What currency is the product being sold in?

How much would the product cost, if the UNIDAYS discount was applied?

How much does the product cost in euros? What information do we need to calculate this?



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adidas Predator Edge+ FG

White/Hi-Res Blue/White

£230.00

0.85 Pound sterling

26 Apr, 23:06 UTC · Disclaimer

1

Euro



0.85

Pound sterling



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3 interest-free payments of £76.66. No fees.

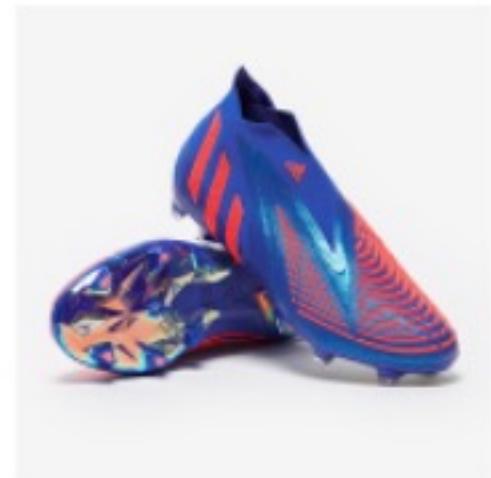
Pay in 3 interest-free payments so you can spread the cost. No fees.

- Add item(s) to your cart
- Go to checkout and choose **Klarna.**
- Enter your debit or credit card information.
- To check your eligibility, Klarna will perform a soft search with a credit reference agency. This will not affect your credit score.
- Spread the cost in 3 interest-free payments. The first payment is made at point of purchase, with the remaining 2 payments scheduled automatically every 30 days. **No fees.**

You must be 18+ to use this credit offer. Klarna uses soft searches with credit reference agencies. These do not affect your credit rating. Missed payments can affect your ability to use Klarna. Pay in 3 instalments complete [terms](#).



Calculate the percentage VAT.



adidas Predator Edge+ FG

£230.00 ExVAT £191.67

Size: UK 10 Qty: 1

Est. Delivery on or before : Mon May 2nd



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-15%



adidas Performance
**PREDATOR EDGE.1 FG - Moulded stud
football boots**

15% off

€186.95 ~~€220.00~~ VAT included

Colour: blue



45 1/3



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Pro:Direct Soccer | Next Level Sport

Reviews 79,053 • Great



✓ VERIFIED COMPANY

www.prodirectsoccer.com

Visit this website >

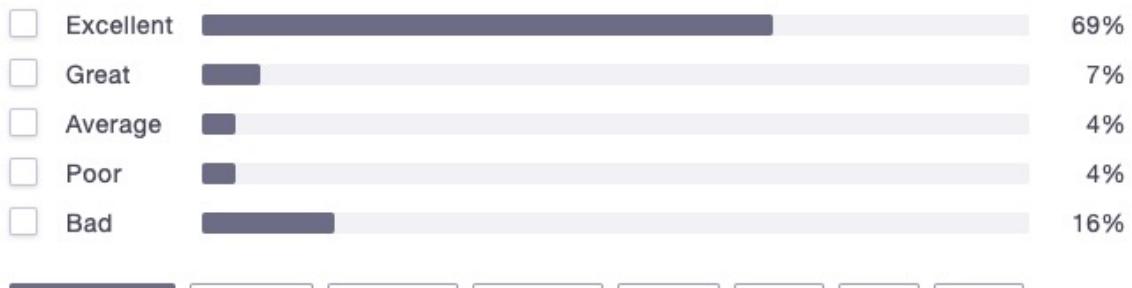


[Write a review](#)



Reviews 79,053

Filter by: Rating English



Company activity

[See all](#)

Claimed profile

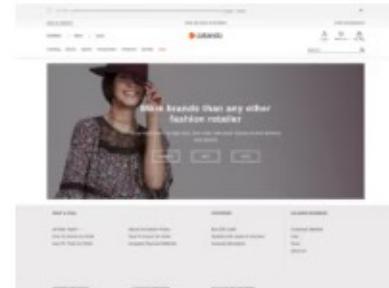
Asks for reviews — positive or negative

Pays for extra features

Replied to 99% of negative reviews

Replies to negative reviews in < 1 week

Shopping & Fashion > Zalando



Zalando

Reviews 120 • Average



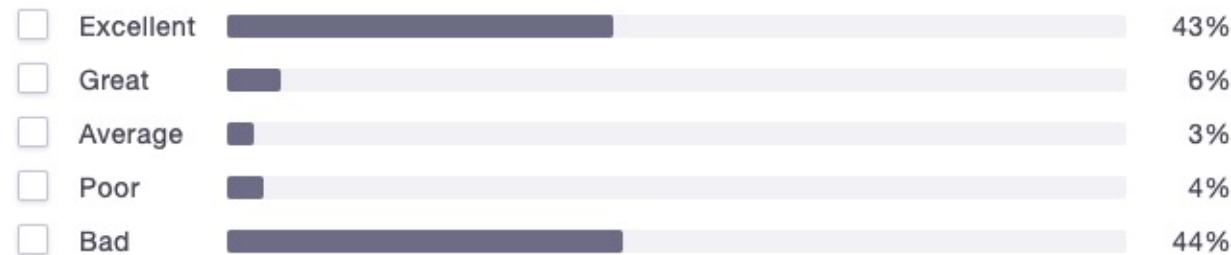
3.0 ⓘ



Write a review

**Reviews 120**

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3 Feb 2022

Disappointed

I ordered a pair of boots and on the day they were meant to arrive I got an email saying they had received my return and refunded me. I emailed them to ask why this had happened and apparently it was a “logistical issue”. They said I can reorder with a 15% discount but the boots have now doubled in price!! Disappointed and will not be ordering from them again.



Ollscoil Chathair
Bhaile Átha Cliath
Dublin City University



adidas

adidas Predator Edge .1 FG

€220.00

★★★★★ 1★ [70 Reviews](#) [Write a Review](#)



Free Returns
On All Orders!



Free Delivery
on order over €70



Calling all Students!
20% Off* with UNiDAYS

How much does the product cost if the UNiDAYS discount is applied?

Add Personalisation



I acknowledge the following:

- Personalised items can't be returned.
- Squad numbers are subject to change.
- Next Day is unavailable on personalised items.
- Dot (.) And hyphen (-) allowed in name field.

Benchmarks

Ryanair offers a number of different bag options to fit the needs of everyone.

All passenger fare types include a small personal bag, which must fit under the seat in front of you.

Examples can be seen below:



Compare these bags to the size of your school bag?



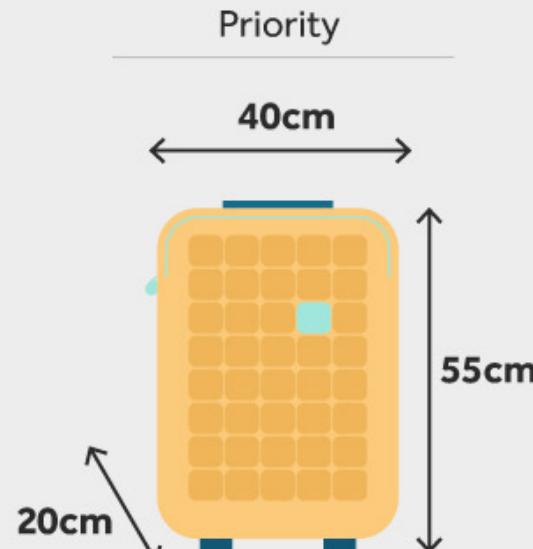
RYANAIR

Baggage Restrictions

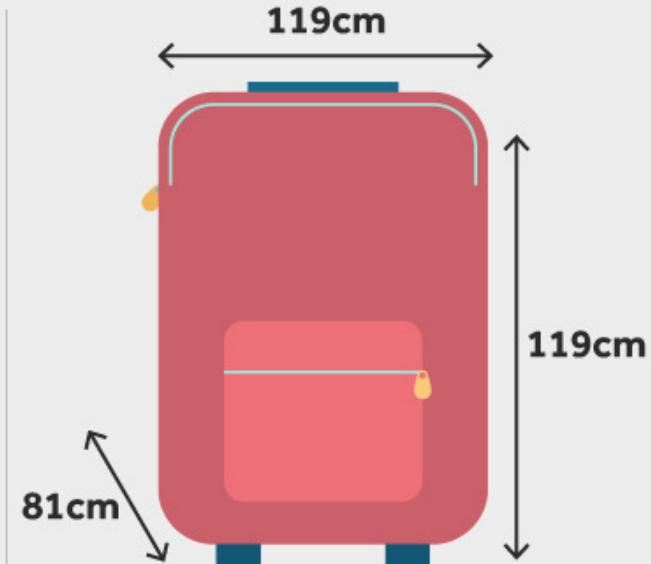
Standard Fare



1x Personal Item
40x20x25cm; free



with 'Priority &
2 Cabin Bags'; €/€6-10
+
1x Personal Item
40x20x25cm; free



Charges Apply

SendmyBag.com



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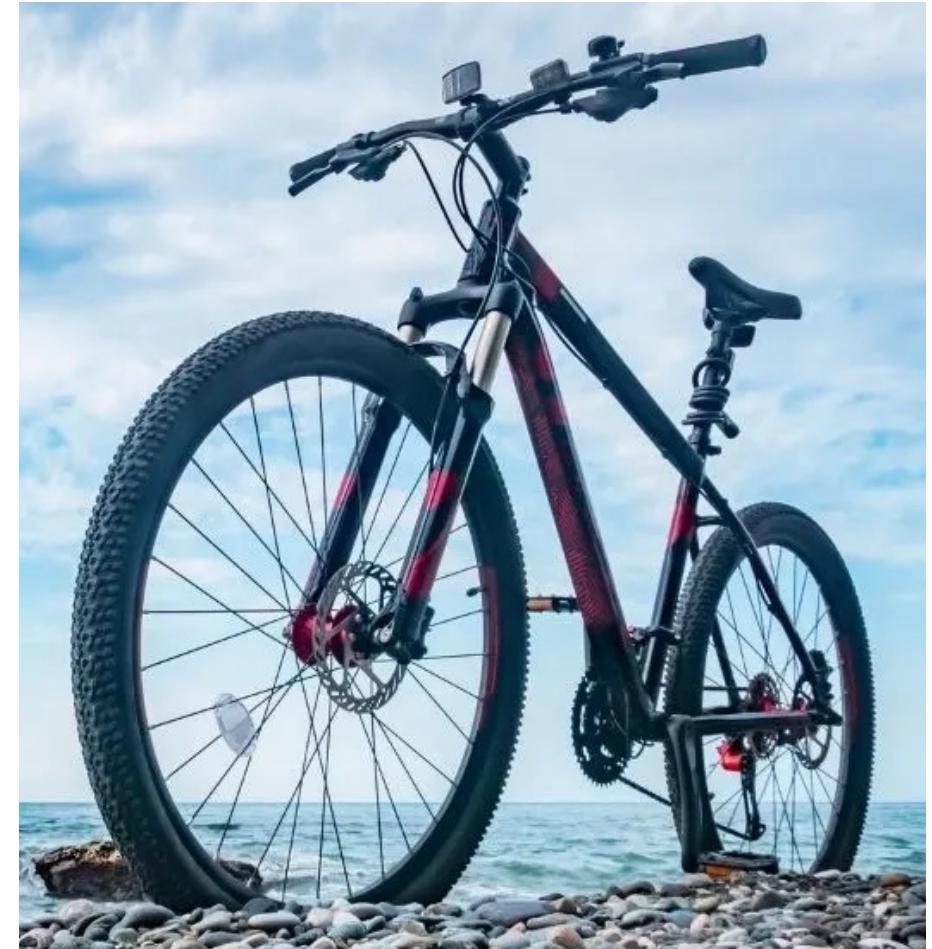
What other items weigh 10kgs?



What other items weigh 20kgs?



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A screenshot of a Bank of Ireland mobile application showing a PIN entry interface. The title 'Bank of Ireland' is at the top, followed by the bank's logo. The main area says 'Your 365 PIN' and instructs the user to 'Enter your PIN's **1st, 3rd** and **5th** digits'. Below this are six input fields labeled '1st', '3rd', and '5th' from left to right. The first and third fields are outlined in blue and contain a small grey dot. The fifth field is also outlined in blue. A large teal 'Log in' button is centered below the fields. At the bottom, there are links for 'Forgot your PIN?' with a right-pointing arrow and 'Log in with another ID' with a user icon.

How many combinations of numbers are possible to enter?

How many codes can be produced?



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The odds of winning?

Netflix

	Basic	Standard	Premium
Monthly cost* (Euro)	8.99€	14.99€	20.99€
Number of screens you can watch on at the same time	1	2	4
Number of phones or tablets you can have downloads on	1	2	4
Unlimited movies, TV shows and mobile games	✓	✓	✓
Watch on your laptop, TV, phone or tablet	✓	✓	✓
HD available		✓	✓
Ultra HD available			✓

How much does Prime Video cost?

In Ireland, you can get Prime Video for £5.99 per month. The price is charged in GBP because Amazon don't run a dedicated Irish Amazon Prime service.

You can also watch Prime Video as part of the Amazon Prime membership package. This costs around £7.99 per month or £79.00 per year.

If you don't want to sign up to Prime Video, you can still rent or buy videos to watch instantly. They will be charged to your payment method if you already have an Amazon account.





Stories you'd expect
+ Stories you wouldn't

€8.99 | Month

Subscription required.

€89.90 | Year

Save over 15%.* Subscription required.

[SIGN UP NOW](#)

[SAVE ON 12 MONTHS](#)

*Savings compared to 12 months of the monthly subscription price.



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The screenshot shows a navigation application interface. At the top, there are icons for menu, turn-by-turn, car, bus, walking, cycling, and flight. Below the menu is a search bar with two entries: "University College Cork, College Rd, Unive" (with a blue location pin) and "University of Limerick, Castletroy, Co. Lim" (with a red location pin). A double-headed arrow icon is positioned between the two entries. Below the search bar is a button labeled "+ Add destination". Underneath this is a section with "Leave now" and "Options" buttons. The main content area displays three route options:

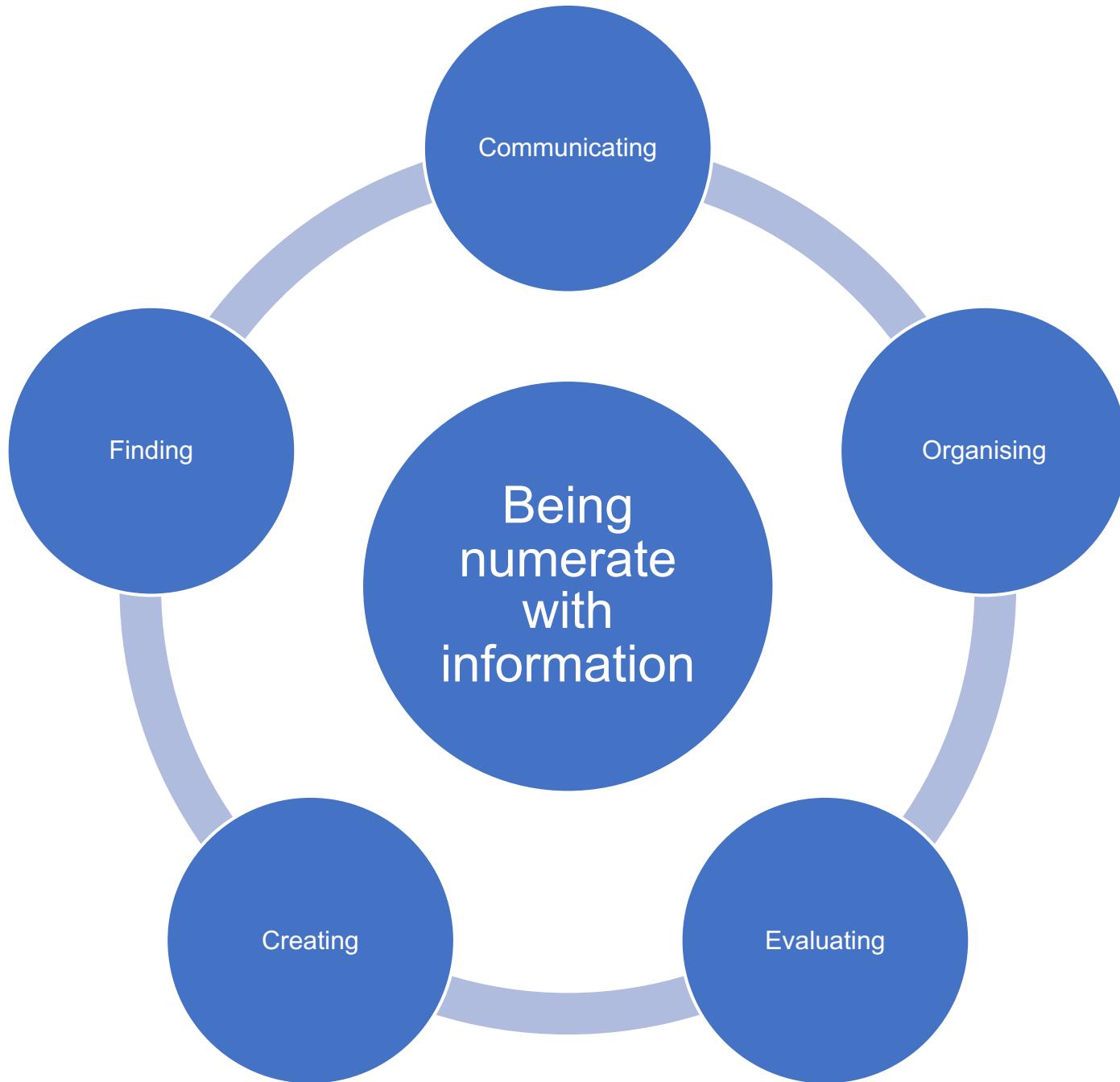
Route	Duration	Distance
via N20	1 hr 24 min	106 km
via M8 and R513	1 hr 37 min	116 km
via R512	1 hr 45 min	108 km

Each route entry includes a car icon, the route name, duration in green text, and distance in black text. The route via M8 and R513 includes a warning icon indicating tolls.

The average diesel consumption is 7 litres per 100km, how much diesel is used for each of these trips?

Diesel costs €1.906 per litre, what is the cost of the diesel for the trips?

The toll cost is €2 for a car, what is the total cost of using this route for the journey?



Conclusion

– While technologies can “leapfrog” over traditional infrastructure, they cannot leapfrog over traditional human cognitive capacity.

(Matthews, 2019)



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Thank you for listening.

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