


1.

An energy company track how many wind turbines are turning and generating electricity. The display shows the number of turbines turning on a windy day.

 Turbines turning
Field 1: 56
Field 2: 49

In each field, there are 60 turbines.

How many turbines are there in **total**?

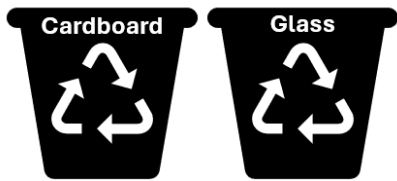
turbines

What is the total number of turbines **not** turning?

turbines

2

Adam has a full bag of recycling that needs sorting into the correct bins. The bag weighs 3.25 **kilograms**.



He takes out all the cardboard. Now his bag weighs 2.8 **kilograms**.

Next he takes out all the glass. Now his bag weighs 920 **grams**.

How much does the cardboard weigh in **grams**?

How much does the glass weigh in **grams**?

How much **more** did the glass weigh than the cardboard in **grams**?

3

Olivia buys spring bulbs to encourage bees into her garden. She buys one daffodil bulb, one snowdrop bulb and one bluebell bulb.



Daffodils

50p



Snowdrops

65p



Bluebells

70p

Olivia pays with four 50p coins.

What is her **change** in pence?

pence

The next day Olivia goes back with a £2 coin. She wants to buy 2 bluebell bulbs.

Does she have enough money to buy any other bulbs as well and if so, which bulb? Explain your answer.

Explain your answer here

4

An energy provider has an energy saving day. It asks customers to turn off their lights for 3 hours. Throughout the day 234,869 houses took part.

- 80,978 houses switched lights off in the morning
- 72,319 houses switched lights off in the afternoon.

The rest took part in the evening. How many houses switched lights off in the **evening**?

houses

1,333,874 houses did not take place in the energy saving day.

How many houses does the provider they have in **total**? Round your answer to the nearest **thousand**.

houses

6

A storm moves over the UK.

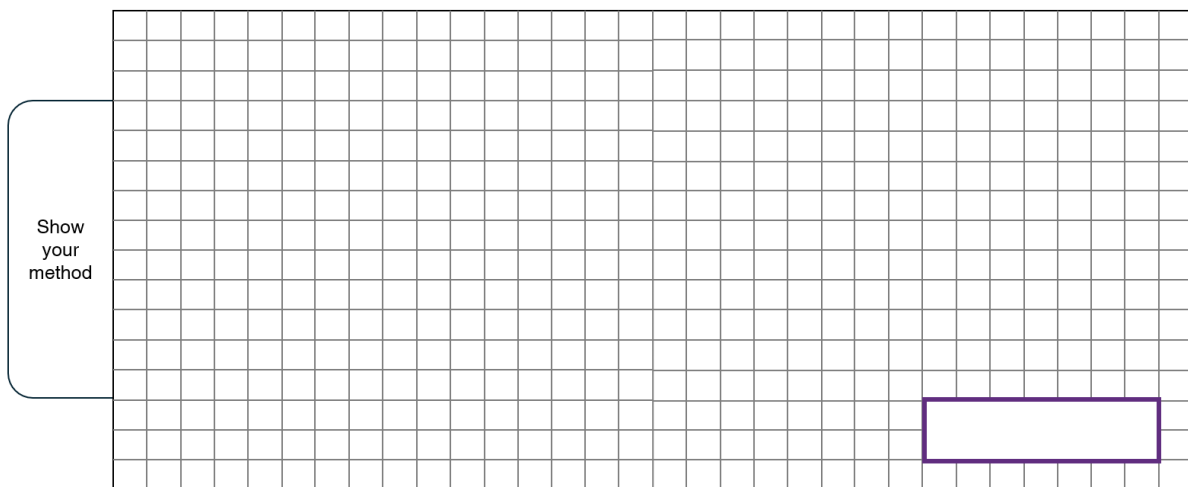


It takes the rain an **hour and twenty minutes** to move from Liverpool to Newcastle.

It began raining in Newcastle at **ten past seven**.

At what time did the rain **leave** Liverpool?

Show your method



The rain started at Newcastle at **7.10pm**.

It finished at **9.05pm**.

How long did the rain last in Newcastle?

hours	minutes
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8

This table shows the cost of different seed packs.

Type of seed	Cost for one pack
Carrots	12p
Tomatoes	23p
Lettuce	32p
Cucumber	38p

Amir wants to grow his own fruit and vegetables rather than buy them from the supermarket. He buys **two types** of seed.

He pays with a £2 coin.

He gets £1.50 **change**.

Tick the two types of seed that Amir buys.

Tick **two**.

- Carrots
- Tomatoes
- Lettuce
- Cucumber

Amir wants to buy as many packs of tomato seeds as possible with his change. He thinks he can only buy 5 packs of tomato seed.

How much does **5 packs** of tomato seed cost?

£ .

Can he buy any more than 5 packets of tomato seed with his **change**? **Explain** your answer.

Explain your answer here

9

A farmer decides to use one of his fields to plant trees. He bought 1250 trees to plant.

At the end of week one he had planted 660 trees.

At the end of week two there were 40 unplanted trees.

The rest were planted in week 3.

How many trees were planted in **week two**?

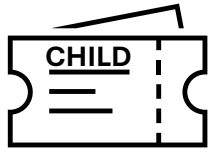
trees

A local wildlife charity donate an extra 870 trees. Once planted how many trees will be planted in **total**?

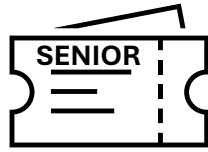
trees

10

Jack buys a train ticket for himself and his grandma.



£1.75



£2.10

Jack pays with a £5 note.

How much **change** does he get?

£		.
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An adult ticket is £1.10 **more** than the senior ticket.

How much money would it cost for jack to buy an adult ticket for his **Mum and Dad**?

£		.
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For Jack, his Grandma and parents to drive to the same place it would have cost £1.50 **more** than buying all the tickets. How much would it cost to **drive**?

£		.
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11

A company aims for all its vehicles to be electric by 2030.

Year	Electric	Petrol or diesel
2005	0	42
2010	2	40
2015	7	35
2020	18	20
2025		

How many vehicles does the company have in **2020**?

Has this **total** number of vehicles decreased or increased between **2005** and **2020**?

.....

How many **electric** vehicles were bought between **2015** and **2020**?

In 2025 the company have the same total number of cars as 2015.

However, 14 of the petrol/diesel cars are **replaced** with electric cars.

Fill in the numbers in the **table** for **2025**.

12

A heatwave is forecast.

Chen buys 4 items to try stay cool.



Ice cream

Ice lolly

Ice

Fan

370g

400g

500g

720g

£1.50

£0.70

£2.66

£11.99

Chen pays for the four items with a £20 note. How much **change** does she get?

£ .

The heat wave continues for 5 more days.

Can Chen afford to buy an **ice lolly** a day for the 5 extra days with the change she receives?

Explain your answer.

Explain your answer here