The Martíns

Every day, the Martín family:

use **13 kWh** (kilowatt hours) electricity;

use **45 kWh** gas;

use **310 l** water;

use **1,219cm** toilet paper;

watch **215 minutes** television;

and spend **£75** on groceries, bills, travel and leisure/ entertainment.

The Cormongers

Every day, the Cormonger family:

use **25 kWh** (kilowatt hours) electricity;

use **72 kWh** gas;

use **528 l** water;

use **2,272 cm** toilet paper;

watch **183 minutes** television;

and spend **£88** on groceries, bills, travel and leisure/ entertainment.

The Patricks

Every day, the Patrick family:

use **11 kWh** (kilowatt hours) electricity;

use **33 kWh** gas;

use **296 l** water;

use **989 cm** toilet paper;

watch **137 minutes** television;

and spend **£68** on groceries, bills, travel and leisure/ entertainment.

The Dallimers

Every day, the Dallimer family:

use **12 kWh** (kilowatt hours) electricity;

use **43 kWh** gas;

use **332 l** water;

use **1,304 cm** toilet paper;

watch **225 minutes** television;

and spend **£63** on groceries, bills, travel and leisure/ entertainment.

The Bardons

Every day, the Bardon family:

use **14 kWh** (kilowatt hours) electricity;

use **41 kWh** gas;

use **236 l** water;

use **1,340 cm** toilet paper;

watch **177 minutes** television;

and spend **£73** on groceries, bills, travel and leisure/ entertainment.

The Huangs

Every day, the Huang family:

use **15 kWh** (kilowatt hours) electricity;

use **51 kWh** gas;

use **189 l** water;

use **1,420 cm** toilet paper;

watch **211 minutes** television;

and spend **£73** on groceries, bills, travel and leisure/ entertainment.

Household Consumption Challenge

Each of the Household Statistics cards shows some of the daily consumption of everyday items and energy, as well as spending and time spent watching television.

You must estimate then calculate the weekly consumption or spending of some of the things listed for each family.

You must also check your answers using an inverse calculation.

Look at the instructions below and decide which you feel most able to attempt:

Everyone should...	some people could...	a few people might:
Choose at least two statistics (for each family shown) to estimate, multiply and check.	Choose at least three statistics (for each family shown) to estimate, multiply and check.	Calculate weekly consumption or spending of all of the statistics for each family.
Present their work neatly and clearly using written methods.	At least one of the statistics being multiplied should be a three-digit number.	

Household Consumption Challenge

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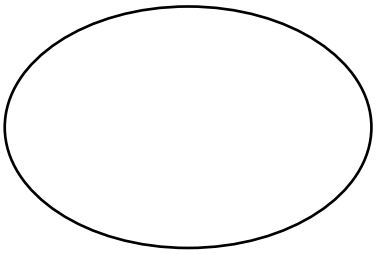
Present their work neatly and clearly using written methods.	At least one of the statistics being multiplied should be a three-digit number.	

Multiplying Doubles and Digits

Word Problems 5A

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

It costs £262 per person for a three-day sightseeing and wine tasting excursion to Corsica.

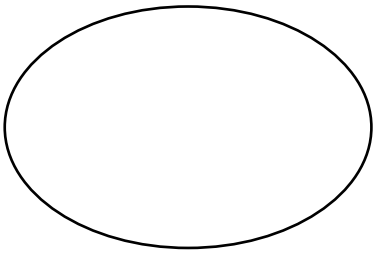
Altogether, how much will it cost for me to take my husband, his sister, my brother and his wife with me on the trip?

Multiplying Doubles and Digits

Word Problems 5B

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

A set of golf clubs weighs 43 kg. My golf buggy can transport me, plus up to 350 kg of equipment.

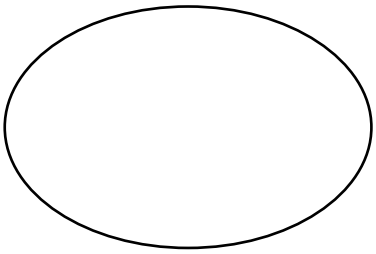
I need to transport eight sets of golf clubs. What will they weigh in total, and can I take them on my buggy in a single trip?

Multiplying Doubles and Digits

Word Problems 5C

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

All six of my electric cars have flat batteries. 77 kWh (kilowatt hour) of electricity is used to fully charge a single car battery.

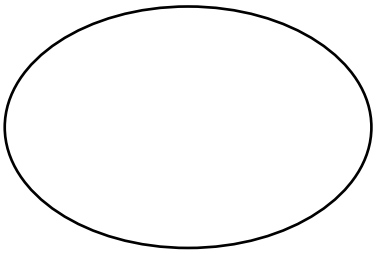
How many kWh of electricity will I use if I fully charge all six car batteries?

Multiplying Doubles and Digits

Word Problems 5D

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

The short walk from my house to the bakery where I work is exactly 417 m.

I work four days a week.

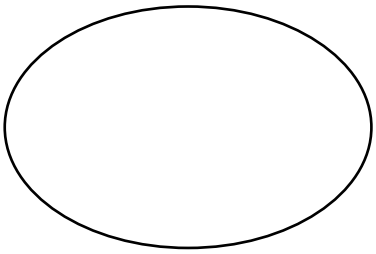
Altogether, how far do I walk to and from work every week?

Multiplying Doubles and Digits

Word Problems 5E

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

Each worker at the paper clip factory can bend 2,066 paper clips per day.

There are six workers at the factory.

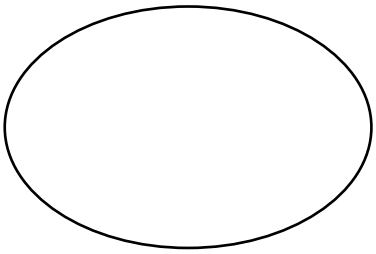
How many paper clips are bent per day?

Multiplying Doubles and Digits

Word Problems 5F

Name: _____ **Date:** _____

1.
Write an estimate:



2.
Which times tables helped you estimate? Show how they helped:

3.
Use a written method to solve the problem.

(Leave space to re-calculate if you make a mistake.)

4.
Make a fact family for the calculation you did:

5. Choose an inverse calculation from the fact family.

Solve it to check your answer:

If you've made a mistake, go back and re-calculate.

6.
Write your final answer:

_____

Every 979 days, Sally's Comet completes its orbit around the sun.

How many days will have passed after seven complete orbits?