ST

STIRLING TUITION

Lesson 23
Homework

Name: _____

Day	Completed
1	
2	
PT	_____ / 10

Day 1 Homework

Boiled sweets at the supermarket costs **£3.72 for 1.2 kilograms**. How much would **100g cost**? Write your answer in the space below.

£ __0·31__

$$12\overline{\smash)3\cdot7^12}$$ gives 0.31

$$100\overline{\smash)12\phi\phi}$$ gives 12

How much would **1 kilograms** of the same boiled sweets cost? Write your answer in the space below.

£ __3·10__

$$\times10\left(\begin{array}{l}100g = 31p\\ 1000g = £3\cdot10\end{array}\right)\times10$$

Start	End	Time Taken
08:55	12:46	3 hours 51 minutes

$$\begin{array}{r}\cancel{12}:\cancel{4}^1\!6\\ -\quad 3:51\\ \hline 08:55\end{array}$$

Look at the four cards below. The **mean (average)** of the **four** cards is **8**. What is the value of the **missing** number? Write your answer in the space below. $8\times4=\underline{32}$

4	+6	+12	10

What is the **range** of the **four** numbers?

__8__

$12-4=8$
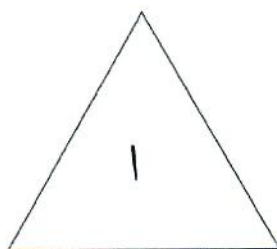
$$\begin{array}{r}32\\ -22\\ \hline 10\end{array}$$

HTTTH TU
932057.645   What is the **value of the digit 9** in this number? _9 hundred thousands_ or
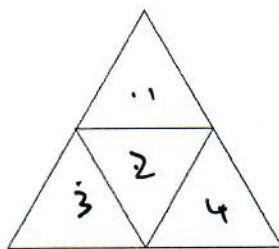_900,000_

Look at the **first four** numbers below. What is the **fifth** number in the sequence?

4 +5 9 +7 16 +9 25 +11 __36__

Look at the sequence of patterns below:

Pattern 1, Pattern 2, Pattern 3
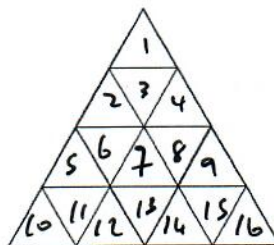
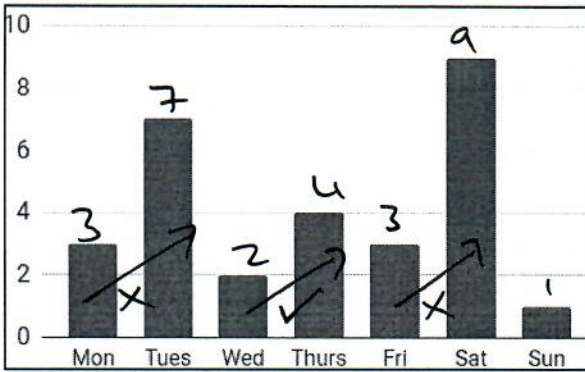| 1	2	3	4
1	4	16	64

×4   ×4   ×4

$$\begin{array}{r}16\\ \times4\\ \hline 64\end{array}$$

How many sections will there be in **Pattern 4**? Write your answer in the space below.

__64__ sections

Ruth records the **number runs** she **completes each day** for a week.

a) On which **day** did she complete the **fewest number of runs**? Write your answer in the space below.

Sunday

b) Over **two consecutive days** there is a **100% increase** in run completion. Write the names of the two days below.

Wed and _Thurs_

The graph below shows the submarines height below sea level at certain times of the day.
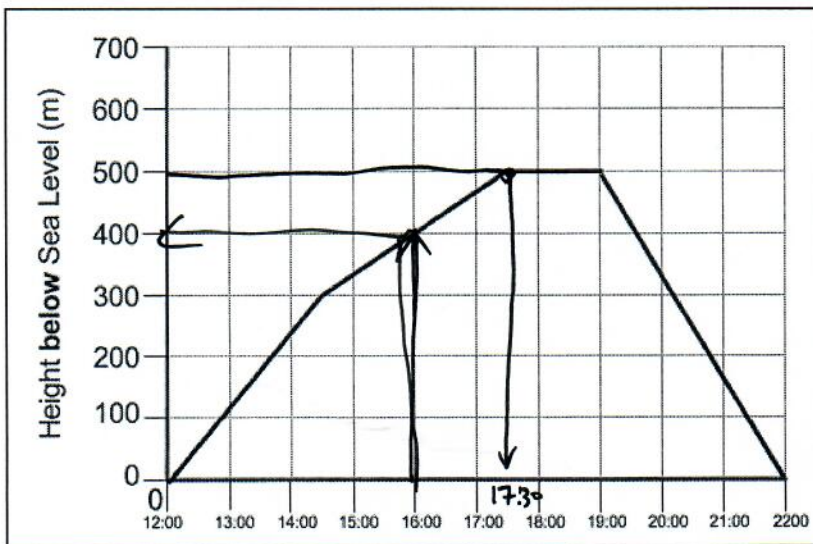
a) How **deep** has the submarine submerged at **4:00pm**? Write your answer in the space below.

_400_ m

b) Look again at the line graph. What time did the submarine reach **500** meters below sea level? Write your answer in the space below in **12-hour clock**.

_5:30pm_

Josh investigated his schools favourite Harry Potter character.
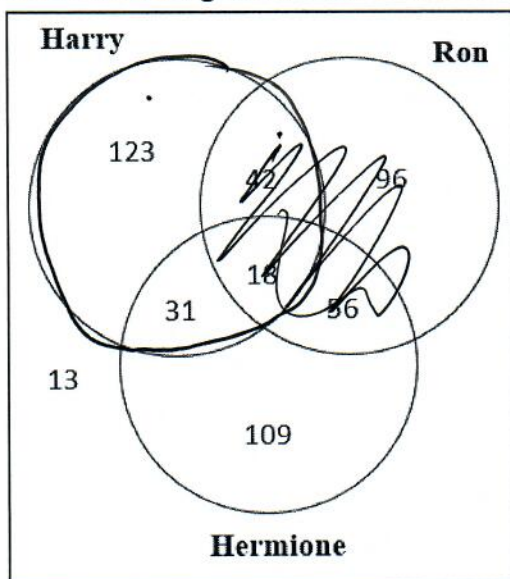
a) How many pupils like **Harry**? Write your answer in the space below.

_214_ pupils

```
  12 5
  47
  +8
+ 3 7
  1 7
  2 1 4
```

b) How many pupils **do not** like **Ron**?

_276_ pupils

```
  1 2 3
  3 4
  1 0 9
+ 5 3
  2 7 6
```

$213 + 19.45 =$ __232.45__

$$\begin{array}{r} 213.00 \\ +019.45 \\ \hline 232.45 \end{array}$$

$2004 - 56.78 =$ __1947.22__

$$\begin{array}{r} 1\cancel{2}\cancel{8}\cancel{8}\cancel{4}.\cancel{8}0 \\ -0056.78 \\ \hline 1947.22 \end{array}$$

$523 \times 0.53 =$ __277.19__

$$\begin{array}{r} 523 \\ \times 53 \\ \hline 1569 \\ 26150 \\ \hline 277.19 \end{array}$$

$12345 \div 4 =$ __3086.25__

$$4\overline{)12345.00} = 03086.25$$

Rewrite the sentence with All the correct punctuation.

Ill never do it again promised the alien not even for a new spaceship

"I'll never do it again," promised the alien, "not even for a new spaceship!"

Homophones: Circle the correct homophone for the sentence.

Their **sun/(son)** was 10 years old.

(**I**)/**eye** can see you.

It was a tough (**sell**)/ **cell** for the shop assistant.

Look at all the beautiful **fur**/(**fir**) trees.

Write down 3 words that rhyme with the words below:

Flower: __cower__   __power__   __shower__ (Examples)

Heel: __seal__   __deal__   __feel__

Simile and Metaphor

Louis is as strong and tall as a redwood. ((**Simile**) / **Metaphor**)

The boy's room was an amusement arcade. (**Simile** /(**Metaphor**))

When she was done running, her legs felt like lead. ((**Simile**)/ **Metaphor**)

You have to watch him closely because he is a real fox. (**Simile**/ (**Metaphor**))

Day 2 Homework

8. How many quarter litre glasses can be **filled** from a container which holds **8.75 litres** of water? Write your answer in the space below.

__35__

$$5 \overline{)1\,7^25}$$

$$\overset{035}{\cancel{4}59 \overline{)8^37^250}}$$

or

$$\begin{array}{r} {}^3 8.\overset{2}{7}5 \\ \times\ 4 \\ \hline 35.00 \end{array}$$

Start	End	Time Taken
14:27	18:06	3hrs 39mins

$$\begin{array}{r} 1\overset{7}{8}:\overset{5}{\cancel{0}}\,{}^16 \\ -\ 14:27 \\ \hline 03:39 \end{array}$$

Look at the four cards below. The **mean (average)** of the **four** cards is **10**. What is the value of the **missing** number? Write your answer in the space below. $10 \times 4 = 40$

7	+	11	+	13		9

What is the **range** of the **four** numbers?

$$\begin{array}{r} {}^3\cancel{4}^{10} \\ -3\ 1 \\ \hline 09 \end{array}$$

__6__

$13 - 7 = 6$

0.2.0000	0.12345

Multiply the **larger** number by **10**. __2__

Look at the **first four** numbers below. What is the **fifth** number in the sequence?

1   4   16   64   __256__

$\underset{\times 4}{}$ $\underset{\times 4}{}$ $\underset{\times 4}{}$ $\underset{\times 4}{}$

$$\begin{array}{r} {}^16\,4 \\ \times\ 4 \\ \hline 256 \end{array}$$

Look at the following patterns made from sticks.

Pattern 1   Pattern 2   Pattern 3

4   4   4
8   8   12

a) There are **four** sticks in **Pattern 1**. **How many** sticks are there in **Pattern 4**? Write your answer in the space below.
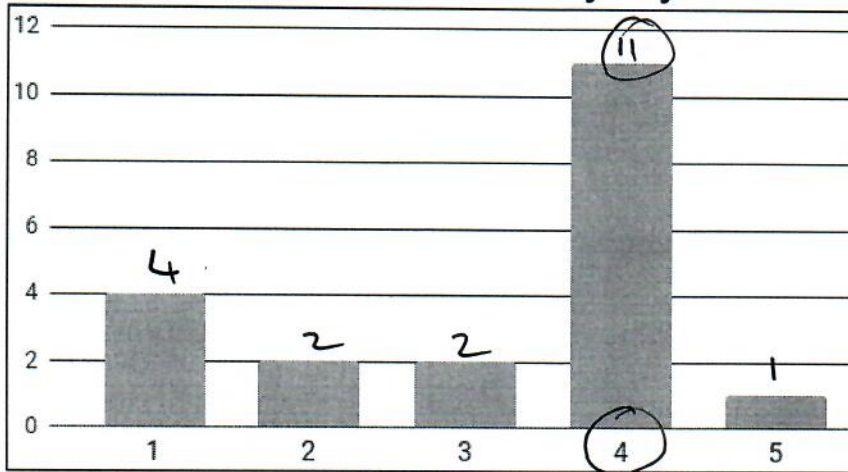
__40__ sticks

b) Using these patterns, **find the pattern** which uses **84 sticks**. Write the **number** of this pattern in the space below.

Pattern __6__

1	2	3	4	5	6
4	12	24	40	60	84

$+8\ +12\ +16\ +20\ +24$

A child asks their friends **how many days a week** they eat vegetables.

a) How many friends did the child ask? Write your answer in the space below.
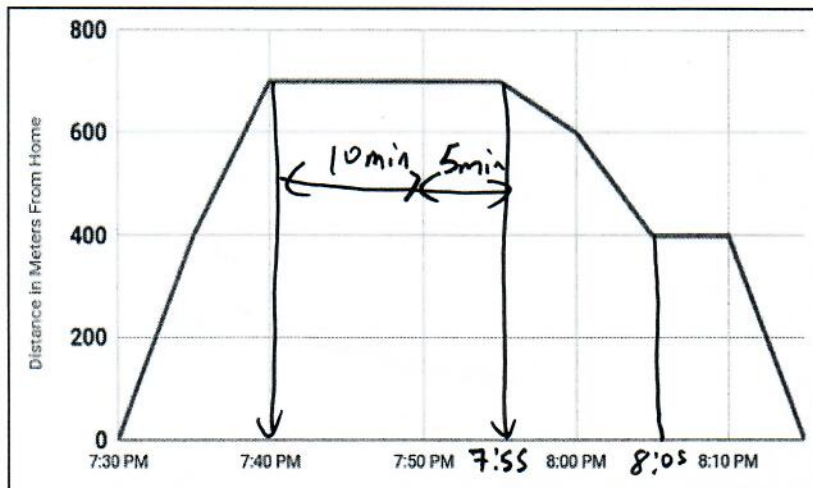
_____2 0_____ friends

b) What percentage of the child's friends eat vegetables **four** times a week? Write your answer in space below.

_____55_____ %

$\dfrac{11}{20} \overset{\times 5}{\underset{\times 5}{=}} \dfrac{55}{100}$

Derek takes his dog Barney for a walk to the local park. Below is a graph which outlines the journey there and back to the house.

a) How long in **minutes** did Derek spend at the park throwing the ball for Barney? Write your answer in the space below.

_____l5_____ mins

b) On the way back to the house Barney needed to stop to go to the toilet. At what time was this? Write your answer in the space below **in 24-hour clock**.
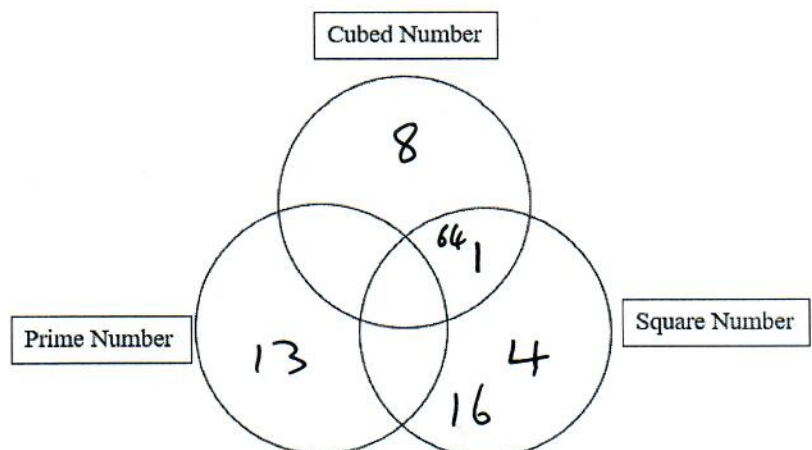
_____20:05_____

Look at the numbers below. Put them in the correct areas of the Venn diagram.

1 ✓ 4 ✓ 8 ✓ 13 ✓ 16 ✓

Look again at the Venn diagram above. Can you think of another number **between 1 and 100** that would go in the **section between Square Number and the Cubed Number** of the Venn diagram? Write your answer in the space below.

_____64_____

Rewrite the sentence with All the correct punctuation.

Yes yes yes cried the girl in delight i have always wanted to go there

"Yes, yes, yes!" cried the girl in delight, "I have always wanted to go there!"

Homophones: Circle the correct homophone for the sentence.

At the sailing club I learned a (new) knew skill.

The **principle/ (principal)** of the school was very serious.

The (sight) site of the fighter pilot was exceptional.

To build in Dubai you need a lot of (steel) steal.

Write down 3 words that rhyme with the words below:

Light: bite   kite   fight   (Examples)

Car: bar   far   jar

Simile and Metaphor
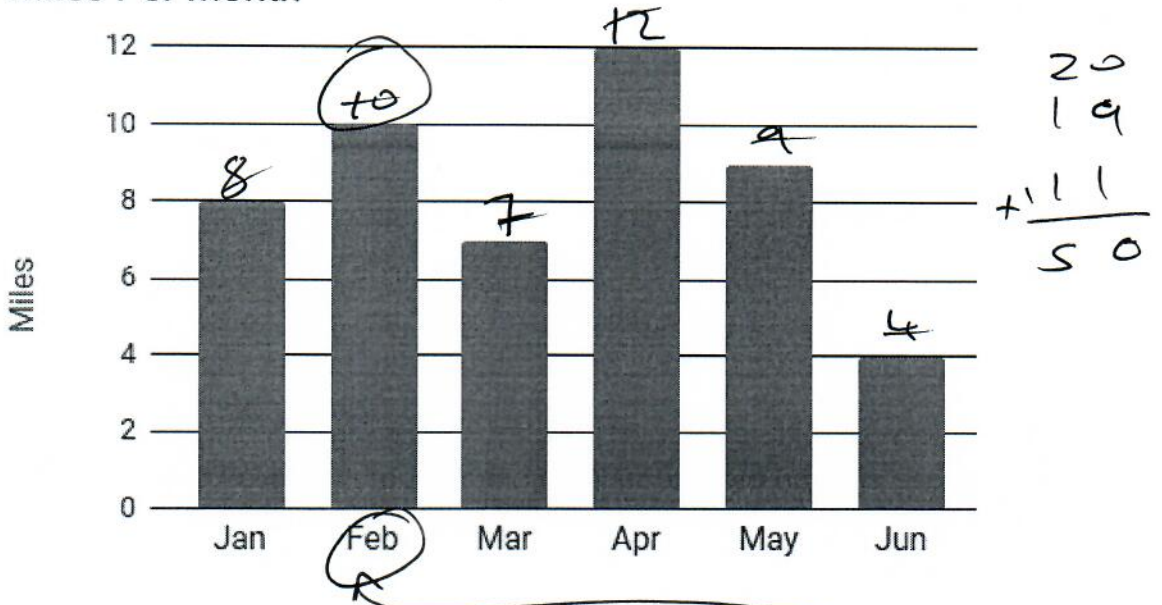
The storm was a savage beast. Simile / (Metaphor)

After Mike climbed the stairs, he was a puffing steam engine. (Simile / (Metaphor))

After she presented to the class, she felt as light as a feather. ((Simile) / Metaphor)

Fran's new car turned out to be a lemon. (Simile / (Metaphor))

1) For the first 5 months of the year John records the number of miles he runs each month.
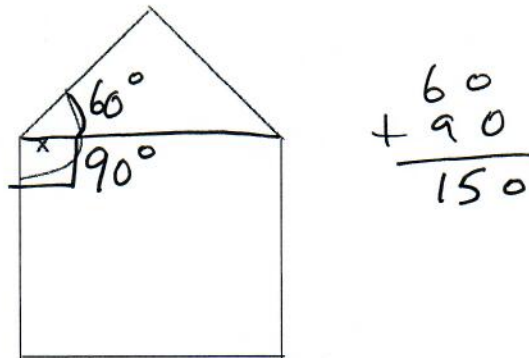
Miles Per Month

In one of the months, over the above six month period, he ran $\frac{1}{5}$ of the miles.

Which month was it?

A Jan   B Feb   C Mar   D Apr   E May

$\frac{1}{5}$ of 50 = 10

$$\begin{array}{r} 20 \\ 19 \\ +11 \\ \hline 50 \end{array}$$

2) Look at the equilateral triangle on top of a square below.

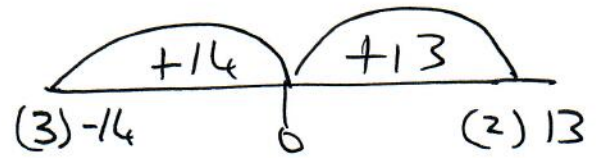$$\begin{array}{r} 60 \\ +90 \\ \hline 150 \end{array}$$

What is the size of angle x?

A 180°   B 150°   C 90°   D 60°   E 30°

3) Look at the table below with the temperature in different cities around the world at dawn on the same day.

City	Temperature
1	-12°C
2	13°C
3	-14°C
4	11°C

$+14$ $+13$

$(3)-14$ 0 (2) 13

$\begin{array}{r} 1\,4 \\ +1\,3 \\ \hline 2\,7 \end{array}$

What is the difference in temperatures between City 3 and City 2?
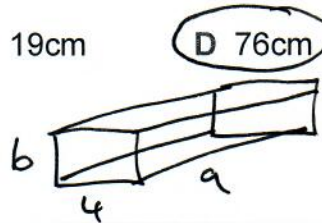
A 27°C   **B** 1°C   **C** 13°C   **D** 32°C   **E** 14°C

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4) Michael is measuring the different side lengths of a cuboid. The cuboid measures 6cm by 9cm by 4cm. He then adds up all the edges of the cuboid.

What is the total of all the edges of the cuboid?

$6 \times 4 = 24$
$4 \times 4 = 16$
$9 \times 4 = 36$
$\overline{76}$

A 216cm   B 15cm   C 19cm   **D 76cm**   E 38cm

For this question you have to **write your answers** in the boxes provided on your answer sheet

5) Look at the first four numbers of a sequence below.

$1 \quad 3 \quad 9 \quad 27 \quad 81 \quad 243$
$\times 3 \quad \times 3 \quad \times 3 \quad \times 3 \quad \times 3$

What is the sixth number in the sequence?

$\begin{array}{r} 27 \\ \times 3 \\ \hline 81 \end{array}$ $\begin{array}{r} 81 \\ \times 3 \\ \hline 243 \end{array}$

243

In this question there is either **one** punctuation mistake or **no** punctuation mistake. Find the group of words with the mistake in it and circle the correct letter. **If there is no mistake, mark N.**

6) Its not easy to become a famous chef. You need to practise for hours every day and night.

    A   B   C   D

In this question you have to choose the **best** word to complete the sentence, so that it makes sense and is written in correct English. Choose the **best** answer by circling the answer.

7) My mum loves | two | so | too | to | the | feed the birds.
                 A   B   C   D   E

In this question there is either **one** spelling mistake or **no** spelling mistake. Find the group of words with the mistake in it and circle the correct letter. **If there is no mistake, mark N.**

pentagon

8) Today we learned that a pentgon has five sides and a hexagon has six sides.
      A   B   C   D

Read the Passage Princess Olivia Investigates: The Wrong Weather by Lucy Hawking

Olivia Alez is delighted about finally living a life away from the royal palace in the mountains that used to be her home, after the Kingdom of Alez decides it doesn't want a royal family any more. Now she can finally give up boring princess lessons and learn about real things, like volcanoes and the ocean and space!

But Olivia is completely unprepared for the world that awaits her. Thick, dark clouds hang low over the city, and the rivers that she so longed to see are choked with rubbish. And on top of it all, the weather just feels wrong. With scorching hot sun one day and torrential rainfall the next, it seems nearly impossible for the people and animals in Alez to adapt to their extreme climate.

Olivia, horrified by what she sees, becomes determined to get to the bottom of Alez's dangerous weather patterns. With the help of some new friends and armed with a scientific lab coat that would make Albert Einstein jealous, Olivia sets out to solve the mystery and save Alez from climate destruction before it's too late…

Answer this question. Choose **one** answer from the options below and circle the answer.

9) **Why is Olivia happy not to live in the royal palace?**

    A She has a friend she wants to visit
    B She wants to meet Albert Einstein
    C She is concerned about the weather
    D She doesn't like princess lessons
    E She didn't want a royal family

10)   Which **one word** from the last paragraph means the same as "demolish"?

    destruction