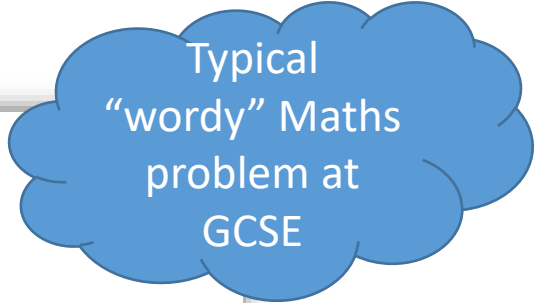


# MATHS AT KS3

# How reading for pleasure helps us in Maths



Typical  
“wordy” Maths  
problem at  
GCSE

In a shop, a TV has a normal price of £500  
The shop has a sale.

On Monday, the normal price of the TV is reduced by  $\frac{1}{10}$  to give the sale price.

On Tuesday, the sale price of the TV is reduced by 20%

Chris wants to buy the TV.  
He has £400 to spend on the TV.

Does Chris have enough money to buy the TV on Tuesday?  
You must show how you get your answer.

**(Total for Question 17 is 5 marks)**

# We still require...

## Basic Number Skills

1  = 6,000 + 90

1 mark

2  = 8,275 + 82

1 mark

3  $826 = 800 +$    $+ 6$

1 mark

1 Write 478 to the nearest hundred.

.....  
(Total for Question 1 is 1 mark)

2 Write down a multiple of 8 that is between 41 and 60

.....  
(Total for Question 2 is 1 mark)

3 Change 1.5 kilometres to metres.

..... metres

(Total for Question 3 is 1 mark)

4 Here is a list of numbers.

4    6    9    10    15    27    30    40

From the list, write down all the numbers that are powers of 3

.....  
(Total for Question 4 is 1 mark)

We still require...

# Times Table Practice

Practise the Multiplication tables check

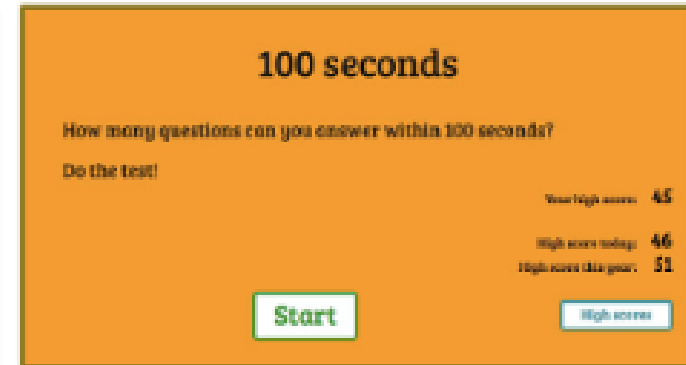
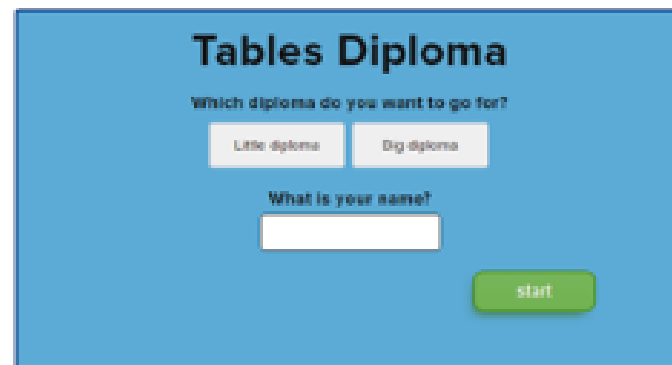
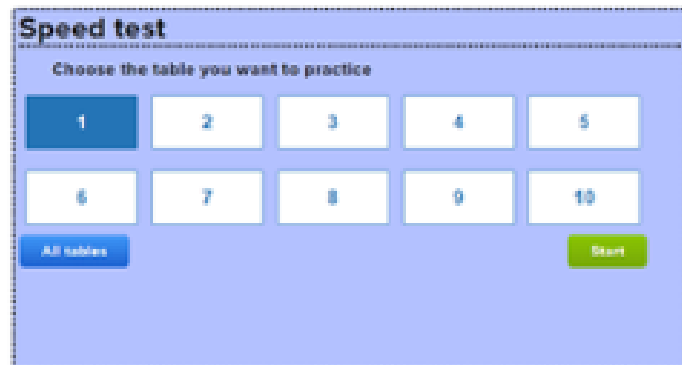


We like...

[www.timetables.co.uk](http://www.timetables.co.uk)

Multiplication tables check

Speed test and times tables diploma.



We still require...

## Effort and Resilience

- Focussed
- Hard Working
- Contribute answers where possible
- **Ask questions** – as many as necessary
- Discuss the maths with others



# Problem Solving and Reasoning

## We still require...

19

Layla makes jewellery to sell at a school fair.

Each bracelet has 53 beads.

She makes 68 bracelets.

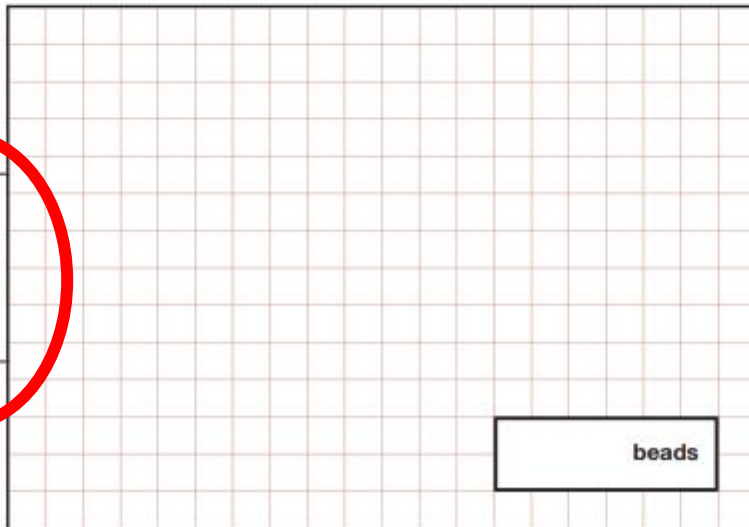


Each necklace has 105 beads.

She makes 34 necklaces.

How many beads does Layla use **altogether**?

Show  
your  
method



beads

3 marks

## Slight difference with...

13

The first term of a sequence of numbers is 24  
The term-to-term rule of this sequence is 'add 8'

Josie says,

"No number in this sequence is in the 5 times table."

(a) Give an example to show that Josie is wrong.

(1)

(b) Is 85 a number in this sequence?  
Give a reason for your answer.

(1)

(Total for Question 13 is 2 marks)

# Slight difference with...

## Equipment

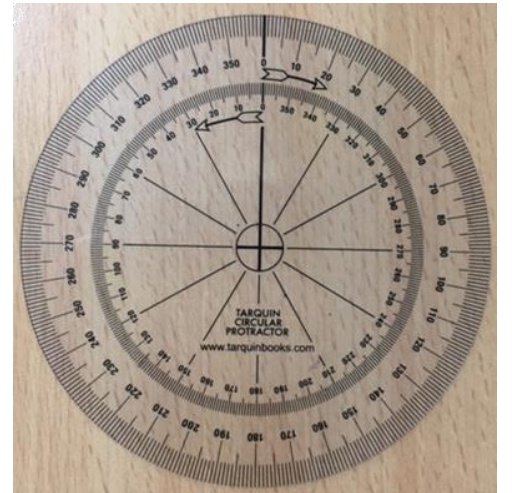
### Please Provide: Basic Equipment

- Pen
- Pencil
- Ruler
- Eraser



### We will provide: Specialist Maths Equipment

- Full Circle Protractor
- Pair of Compasses





# Slight difference with...

## Equipment - Calculators

### Calculators

Ensure they have the correct **scientific calculator**...where you can type a fraction as a fraction









# Y7 Maths Roadmap

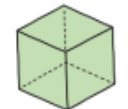



The

White Rose MATHS

Count vertices on 3-D shapes

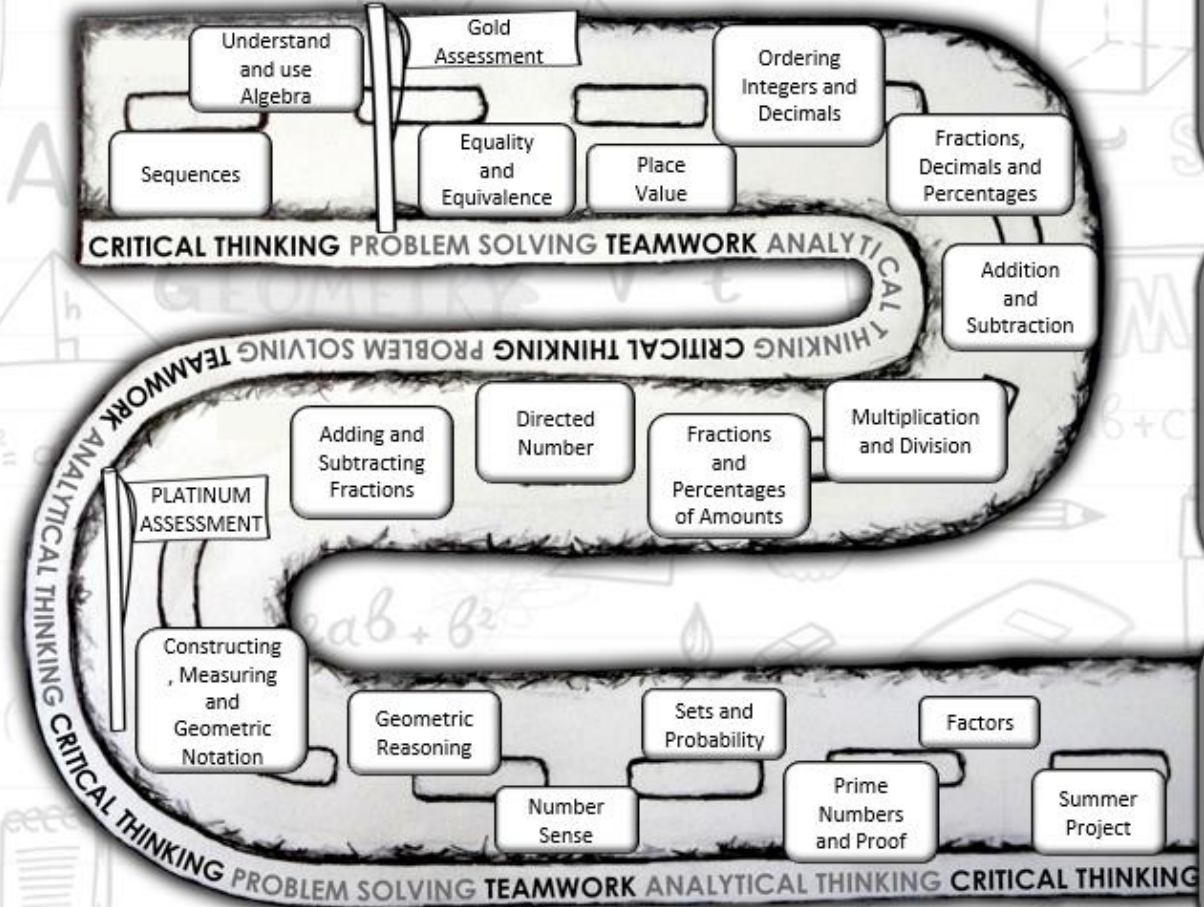
1 How many vertices does each shape have?

a)   vertices

b)   vertices

White Rose curriculum

## KS3 Maths Year 7



### Careers in Maths

**Construction** – Angles, Perimeter/Area of shapes & Rounding

**Chef** – Ratio's & Fractions, Recipe problems

**CAD engineer** – Transformations

### Destinations after GCSE

Sixth Form  
College  
Apprenticeships

University  
- Foundation degree  
- Degree – Associate, Bachelor's, Masters, Doctoral

### GCSE Maths

- Algebra
- Ratio, Proportion and Rates of Change
- Number
- Geometry
- Statistics
- Probability

# To support your child at home

## Useful Website to practise the maths

- Dr Frost Maths [www.dr frostmaths.com](http://www.dr frostmaths.com)
  - Username: student school email address
  - Password: friary
- Maths Genie [www.mathsgenie.co.uk/gcse](http://www.mathsgenie.co.uk/gcse).
  - No log in required
- Corbett Maths [www.corbettmaths.com](http://www.corbettmaths.com)
  - No log in required

The screenshot shows a student dashboard for 'Demo Student' at 'The Friary School'. The student's profile includes a crest, the name 'Demo Student', the school name 'The Friary School', and statistics: 'Points this Year: 0' and 'Global Rank: N/A'. The dashboard is divided into several sections:

- Key Skills: 0/836**: A donut chart showing 0% completion. Below it, text explains that Key Skills are finegrained question types for random practice with example videos. A 'Go' button is present.
- Latest Homework**: A section with a pencil icon stating 'You don't yet have any homework.' and a 'Review All' button.
- Courses**: A section with a book icon stating 'Work through a course, with a mix of question practice, worked example videos and downloadable resources.' and a 'Go' button.
- Trophies: 0/37**: A section with a trophy icon stating 'You earn trophies for achievements related to answering questions.' and a 'View' button.
- Practise**: A dark-themed section with the text 'Have a go at exam questions by topic, or past papers or Key Skills.' and a 'Go' button.
- Clean Up**: A section with the text 'Do a quick task consisting of 4 questions you've recently got wrong.' and a 'Go' button.

# What can you do to help your child, and us?

...**talk** to them about their maths lesson and how they are getting on

...**encourage** them to talk about it like they do the football, or a tv show

...get them to **teach** you how to do something they've been learning

...be **positive** about maths...even if you found it hard at school!