

# YEAR 6 HELPING YOUR CHILD WITH MATHS

20<sup>th</sup> March 2018

A series of several parallel white lines of varying thicknesses, slanted diagonally from the bottom left towards the top right, set against a blue gradient background.

# AIMS OF THE EASTER HOLIDAY MATHS WORK

- Practise key concepts that have been taught in maths lessons.
- Build your child's confidence in completing problems in maths.
- Build your child's confidence in using a range of methods to answer arithmetic questions.

TOP TIP: Please don't encourage your child to do all the work in one go. Little and often is a better way to practise their maths skills.

# SOLVING MATHS PROBLEMS

## 1. Understand the problem

- What is happening in the problem?
- What is the question you are being asked to answer?

# SOLVING MATHS PROBLEMS

## 2. Make a plan

- What do you know from the problem?
- What else do you know from the problem?
- Can you draw a bar model or picture to help you understand the problem?
- What do you need to work out using the information you have?

# SOLVING MATHS PROBLEMS

## 3. Calculate

- How many calculations do you have to do?
- Which method/s are you going to use?

# SOLVING MATHS PROBLEMS

## 4. Check your answer

- Have you answered the question?
- Have you done all the calculations needed?
- Have you checked your arithmetic?

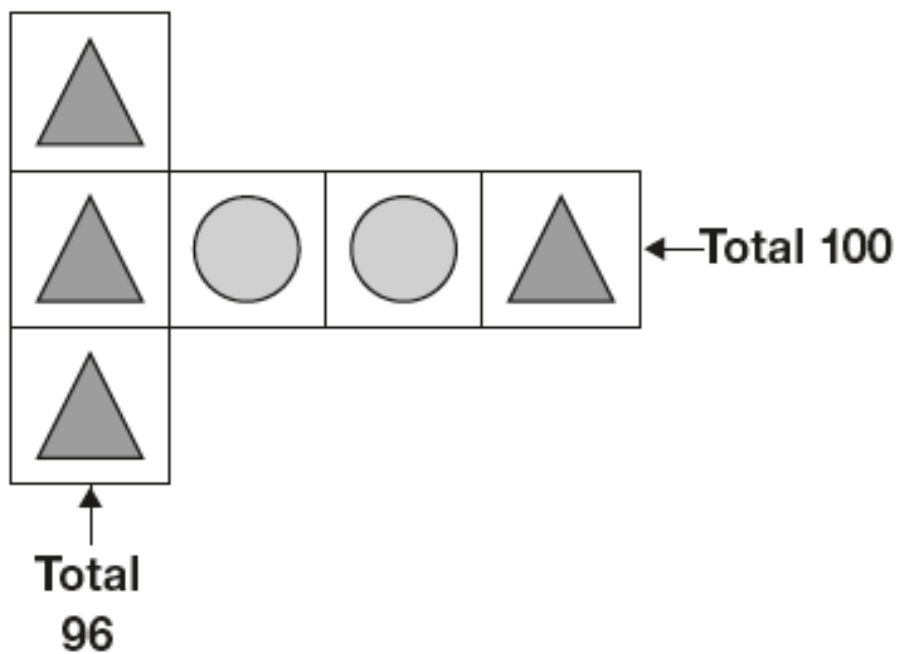








Each shape stands for a number.



Work out the **value** of each shape.

$$\triangle = \underline{\hspace{2cm}}$$

$$\circ = \underline{\hspace{2cm}}$$

1 mark

1 mark

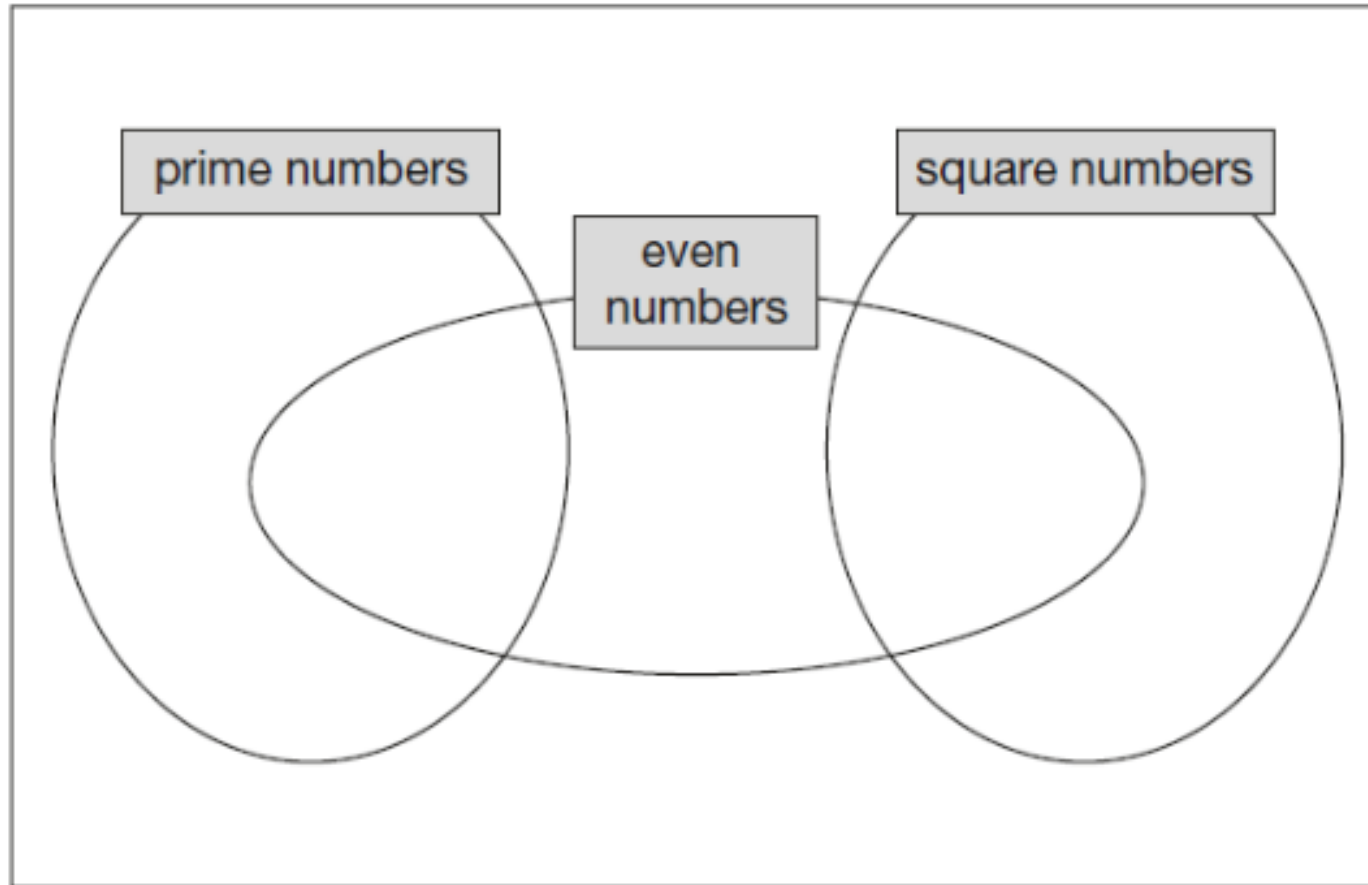
Write each number in its correct place on the diagram.

16

17

18

19



2 marks

A **square** number and a **prime** number have a total of 22

What are the two numbers?

+

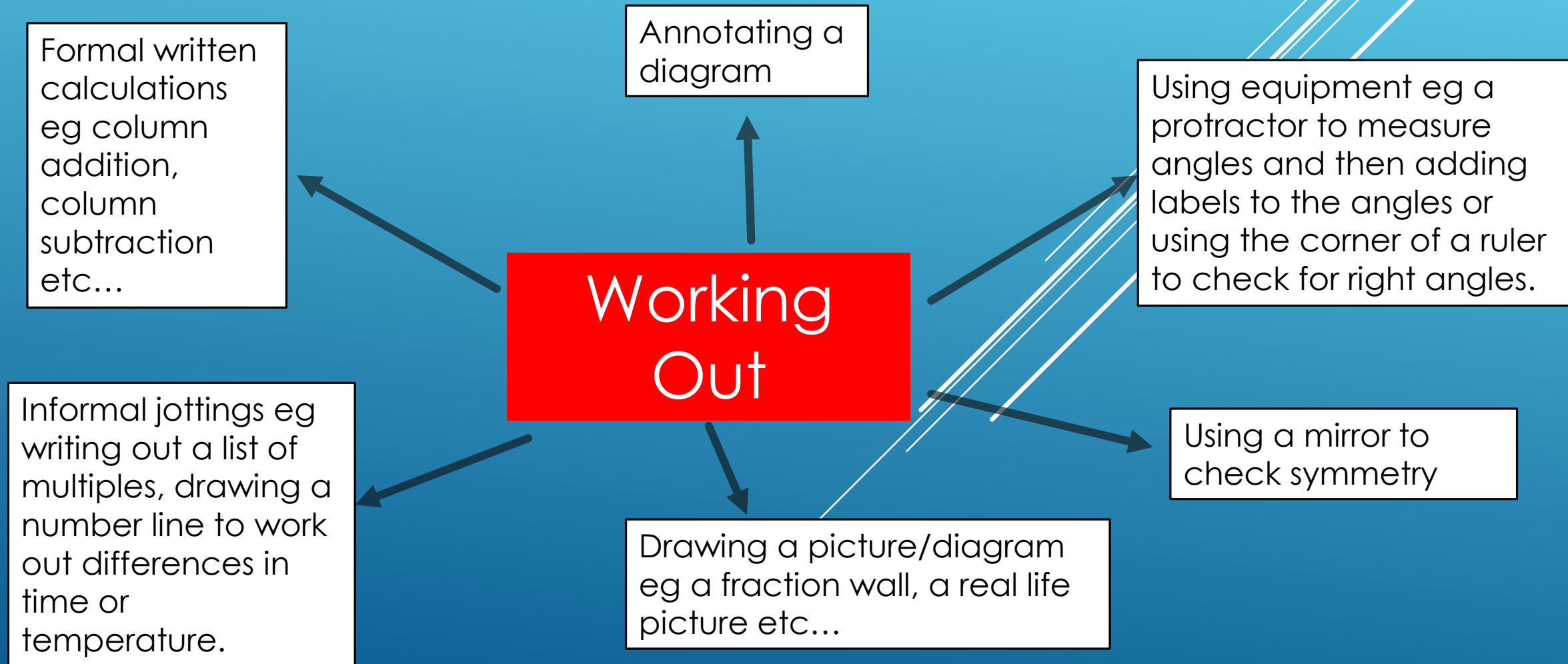
= 22

square number

prime number

# SHOWING YOUR WORKING OUT

Even if there is not a working out box with the question, it is important to do some form of working out to reach the answer.



# CHECK ANSWERS CAREFULLY

Use the inverse ie if you have an addition calculation check with subtraction.

Use your maths equipment to check – ruler, protractor, mirror. Also there is a clock in the classroom which might help with time questions!

Check you have written your answer in the correct unit of measurement eg grams or kilograms, pounds or pence etc....

## Ways to check your answers

If you have to choose from a list of possible answers, make sure you have checked them all – there could be more than one answer.

Do the calculation in a different order to check it.

Check you have followed all the instructions given in the question eg. If you have been asked to work out the change, have you done this?

# THESE THINGS CAN CATCH THE CHILDREN OUT

Comparing or calculating with fractions with different denominators (the bottom number) means you need to convert them so they have the same denominator.

Different units of measurement used in a question means you need to convert to the same unit. Eg £ and p, g and kg.

When questions ask you to use numbers in a particular way ie use all the numbers below to create a multiple of 5 between 2045 and 2167 with the digit 6 in the tens column.

## What to look out for

Maths vocabulary – make sure you know the definitions eg volume, area, perimeter, factor, multiple etc...

Questions with fractions, decimals and percentages - you may have to convert them so they are all written in the same way.

When questions give you lots of instructions – read them carefully and check you have followed them all.

# REASONING QUESTIONS

- The reasoning questions are divided into different topics.
- A glossary has also been included to help the children if they don't know the definitions of any maths words in the questions.
- A column of squared paper has been included with the questions for any working out that needs to be done to help reach the answer.
- If your child needs extra paper for working out then please let them use it.



# ARITHMETIC QUESTIONS

- As well as the reasoning questions, we will be sending home a set of arithmetic quizzes.
- The answers are included at the back of each quiz so that you can check through the answers with your child.
- There is also a sheet containing tips to help with methods for answering the questions if your child gets stuck.

# SCHOOL WEBSITE

On the school website we have put:

- Gordons maths games to help the children practise their maths skills.
- A link to an online maths dictionary to look up any unknown maths words.
- A link to the Woodlands Junior Maths Zone which has lots of maths games and questions to work on.