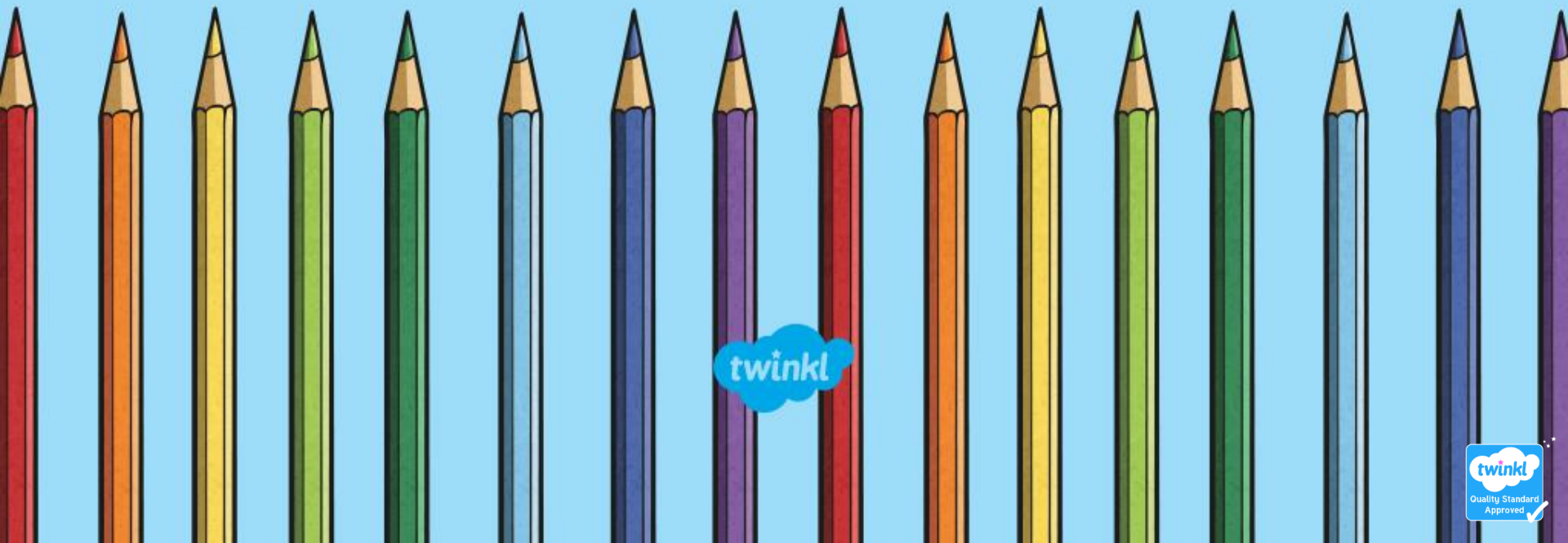


# Morning Maths Activities



# To the Teacher:

- These activities require no preparation other than a minimum of basic classroom equipment - this is indicated on each slide.
- Slides are editable as for some of the activities you may wish to simplify the numbers or make them more challenging for your class.
- Many of the games can be used more than once as they will be different each time children play them.

# Select an Activity

Ordering Numbers

Guess the Number

Perimeters

Comparing Roman  
Numerals

Estimating  
Numbers

Making 100

Rounding Decimals

Word Problems:  
Scaling Up

Odd One Out 1

Checking  
Calculations

Estimating  
Calculations

Simple or Tricky?

What Would You  
Use?

Sequence

Darts

Zeroes in the  
Middle

Roll 5 Dice

Adding Fractions

All the Numbers

It's Not Fair!

Fact Family

Make 36

Label It

Buying Beetles

Sorting Heights

Odd One Out 2

Area

Word Problems:  
Division

Flower Sale

Sorting Time

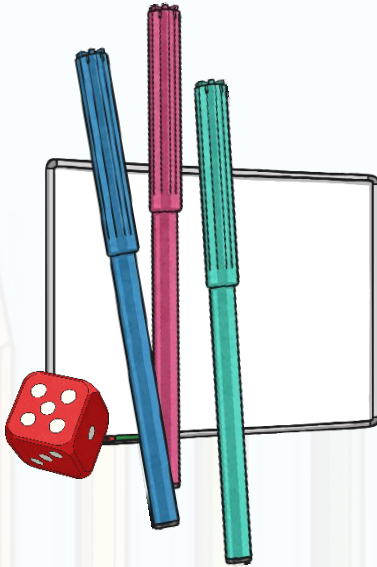
Roll the Dice:  
Fractions

Multiplying Small  
Numbers

# Ordering Numbers

## Equipment

Whiteboard and pens  
3 0-9 dice



Home

Hide  
Answers

Roll your die three times.  
Use the numbers to create as many three-digit  
numbers as you can.

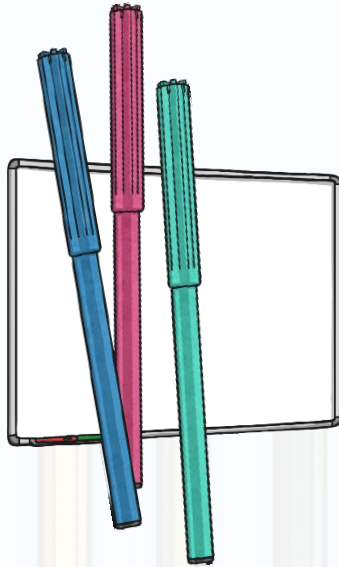
Answers will depend on the numbers the  
children generated with their dice.

Write your numbers in descending order.

# Estimating Numbers

## Equipment

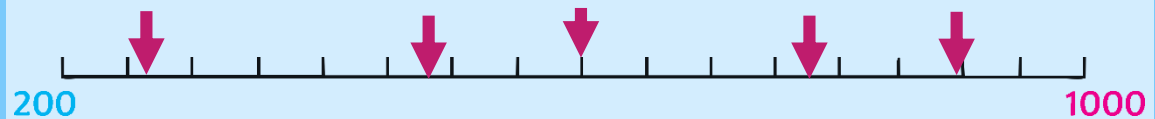
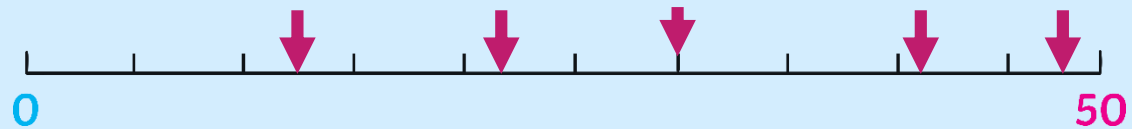
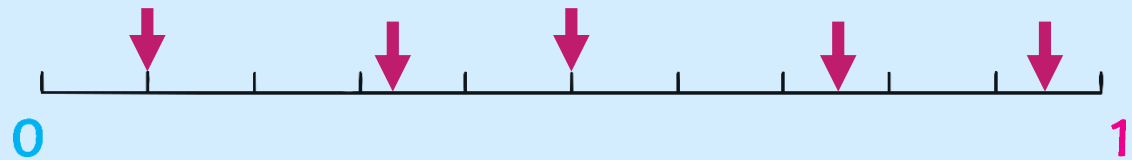
Whiteboard and pens



Home

Hide  
Answers

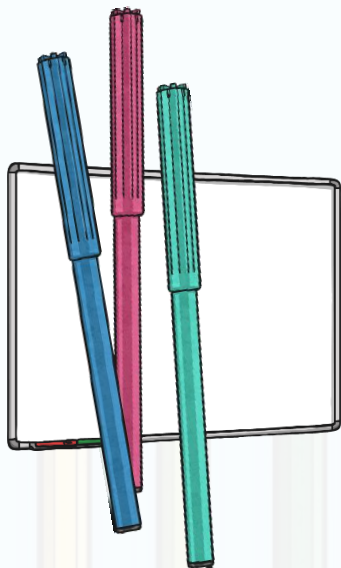
What numbers do you think each arrow is showing on each number line?  
How accurate can you be with your answers?



# Odd One Out

## Equipment

Whiteboard and pens



Home

Hide  
Answers

What is the odd one out in each group and why? (You may think differently to other people!)

$$\frac{1}{2} \quad \frac{5}{10}$$

$$\frac{20}{50} \quad \frac{45}{90}$$

$$\frac{2}{4} \quad \frac{6}{12}$$

$$\frac{1}{9} \quad \frac{6}{8}$$

$$\frac{1}{4} \quad \frac{1}{8}$$

$$\frac{1}{10} \quad \frac{1}{16}$$

$$\frac{3}{4} \quad \frac{7}{8}$$

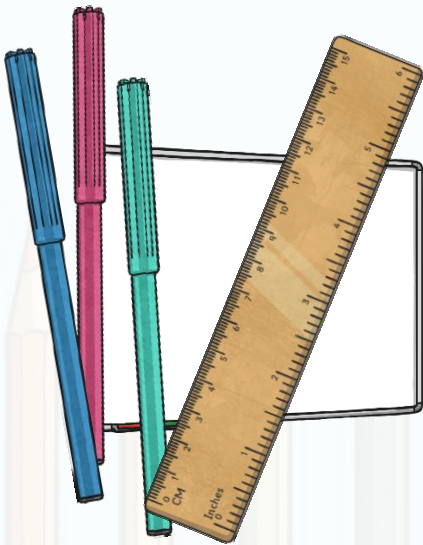
$$\frac{2}{3} \quad \frac{9}{5}$$

$$\frac{7}{12} \quad \frac{6}{7}$$

# What Would You Use?

## Equipment

Whiteboard and pens  
Examples of  
measuring equipment  
could be provided



Home

Hide  
Answers

What equipment and units of measurement would you use to measure each item? Match the correct ones.

Temperature of a cup of tea

trundle wheel or car odometer,  
and metres or kilometres or miles

Mass of an elephant

scales or balance and grams

Height of the classroom door

stopwatch  
and minutes

Distance from school to your house

thermometer and degrees Celsius ( $^{\circ}\text{C}$ )

Volume of water held in a paper cup

measuring cylinder or jug and  
millilitres

Mass of a lump of playdough

ruler and millimetres or centimetres

Width of your little finger

scales and kilograms or tonnes

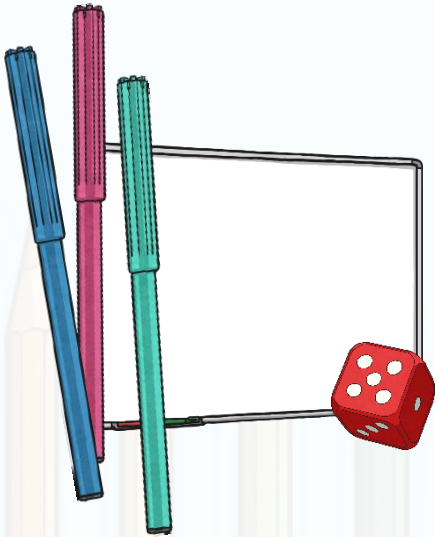
Time taken to swim five lengths of a swimming pool

metre-stick  
and metres

# Roll 5 Dice

## Equipment

Whiteboard and pens  
Examples of  
measuring equipment  
could be provided



Home

Hide  
Answers

Roll your dice.

Use the numbers and any of the four operations  
to try to make the target number.

How close can you get?

You can only use each number once in your  
calculations!

41

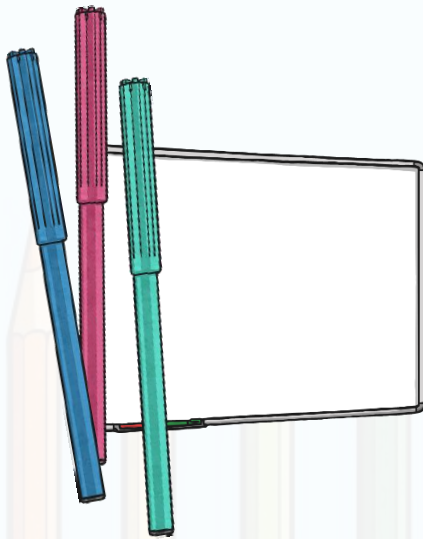
Answers will depend on the target number chosen and the  
numbers the children generated with their dice.



# Fact Family

## Equipment

Whiteboard and pens

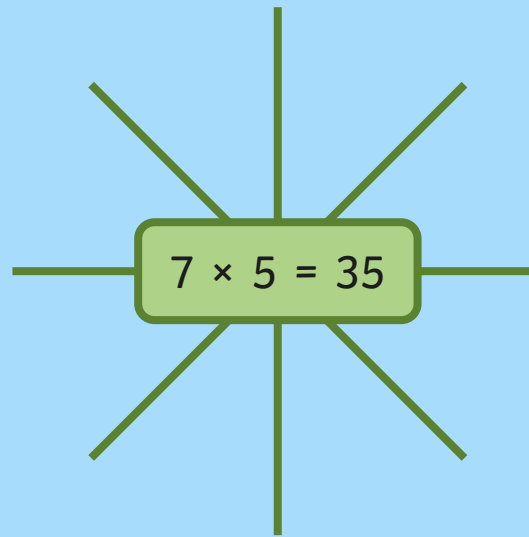


Home

Hide  
Answers

Use the number fact given to work out linked facts e.g.  $70 \times 50 = 3500$ .

Think about place value, inverse operations and facts that would come before or after the fact shown!



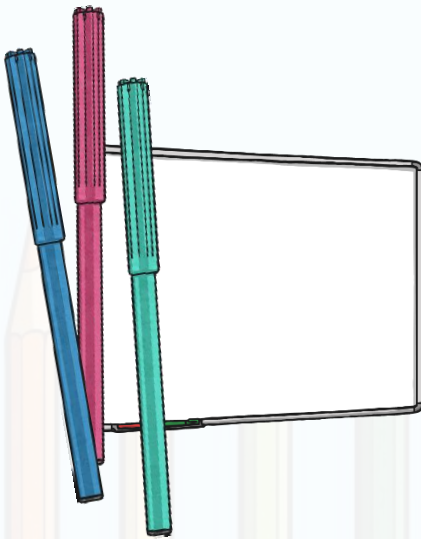
Answers will vary but could include the following:

$70 \times 5 = 350$ ,  $35 \div 5 = 7$ ,  $6 \times 5 = 30$ ,  $7 \times 0.5 = 3.5$

# Sorting Heights

## Equipment

Whiteboard and pens



Home

Hide  
Answers

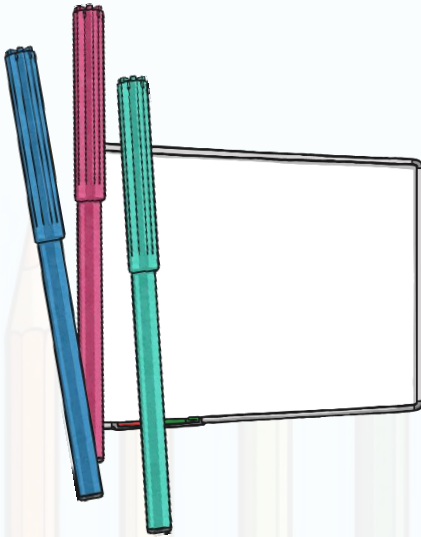
Can you sort these children into height order, from smallest to tallest?

Name	Height (m)
Maddox	1.41
Kiera	1.09
Jake	1.28
Felix	1.19
Melody	1.33
Alex	1.35
Hamish	1.39
Elena	1.04

# Flower Sale

## Equipment

Whiteboard and pens



Home

Hide  
Answers

I make 24 bunches of flowers to sell at the school fair.

Two thirds of the bunches are made using red flowers. How many red bunches do I have?

One quarters of the bunches are made using blue flowers. How many blue bunches do I have?

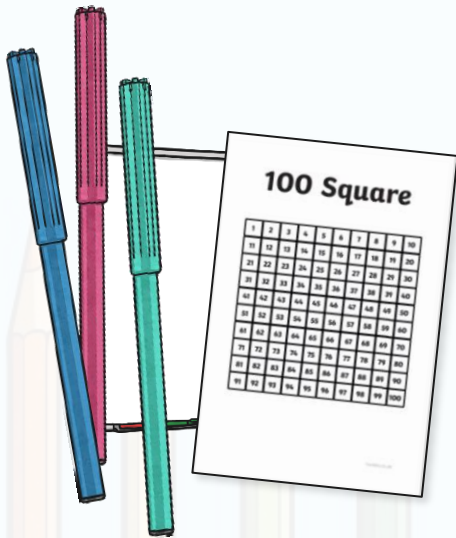
The rest of the bunches are made using pink flowers. How many pink bunches do I have?



# Guess the Number

## Equipment

Whiteboard and pens  
100 squares may be  
useful to eliminate  
numbers.



Home

Hide  
Answers

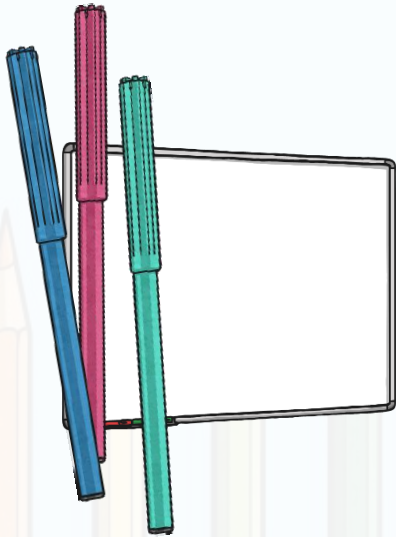
My number is less than 100.  
When rounded to the nearest 10, my number is 80.  
My number has half as many ones as tens.  
Can you guess my number?

My number is less than 100.  
When rounded to the nearest 100, my number is 0.  
When rounded to the nearest 10, my number is 0.  
My number is a multiple of 4.  
Can you guess my number?

# Making 100

## Equipment

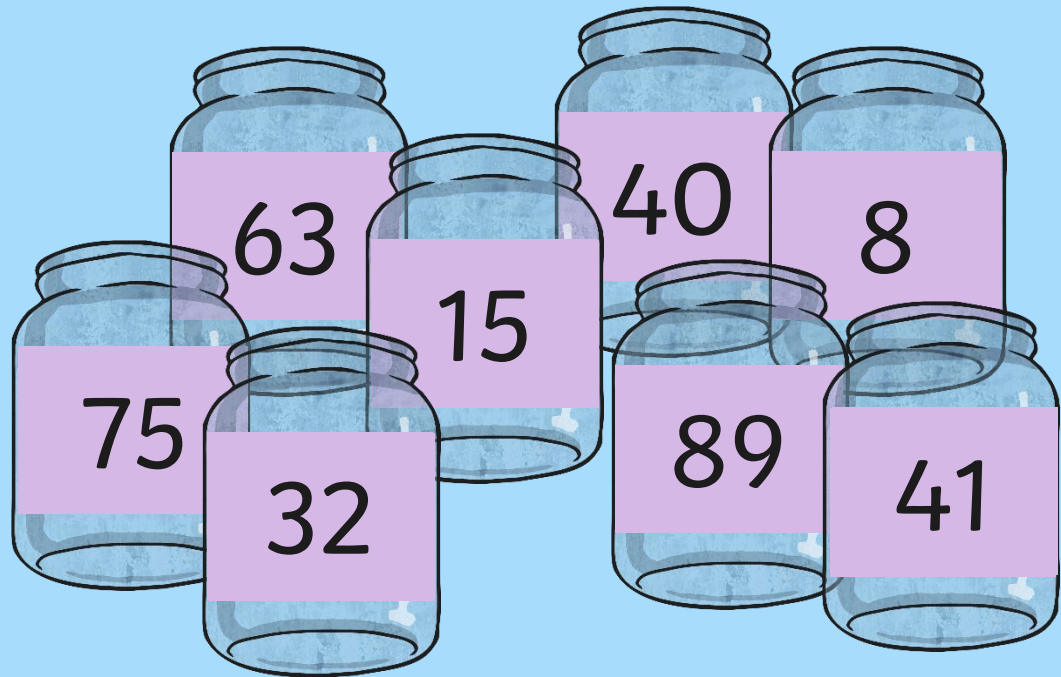
Whiteboard and pens



Home

Hide  
Answers

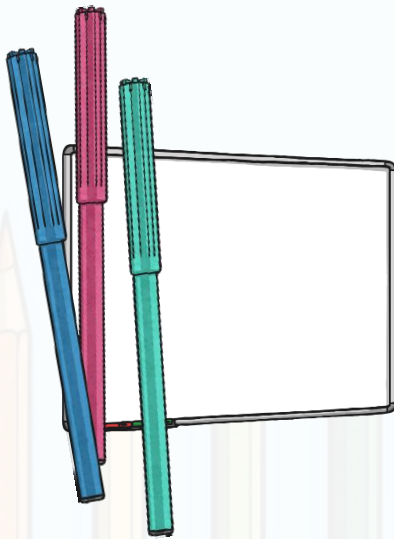
Each jar needs to contain 100 objects.  
How many more will you need to add to each container?



# Sequence

## Equipment

Whiteboard and pens



What goes next in each sequence?

87, 187, 287,  ,  ,  ,

0.6, 0.7, 0.8,  ,  ,  ,

6, 4, 2,  ,  ,  ,

8452, 7452, 6452,  ,  ,  ,

873, 763, 653,  ,  ,  ,

Home

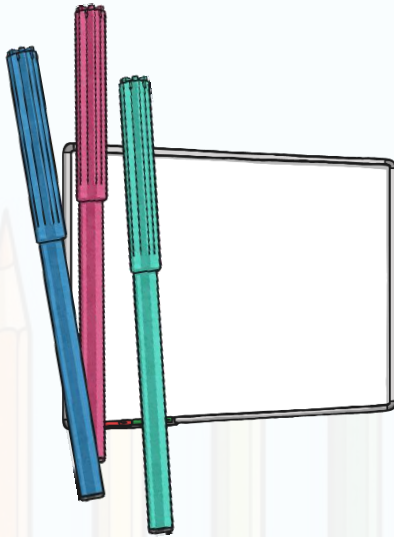
Hide  
Answers

# Adding Fractions

## Equipment

Whiteboard and pens

3 0-9 dice per pair



Roll one of the dice to fill in the denominator of the fractions.

Roll the remaining two dice to fill in the numerators of the fractions.

Add the fractions together. If the total is greater than one, you score a point!

Take turns – who has the highest score?

<input type="text"/>		<input type="text"/>
<hr/>		<hr/>
<input type="text"/>	+	<input type="text"/>

Home

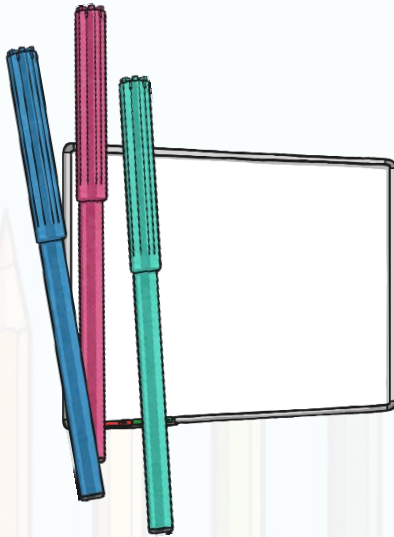
Hide  
Answers

Answers will depend on the numbers the children generated with their dice.

# Make 36

## Equipment

Whiteboard and pens



Home

Hide  
Answers

How many different ways can you find to make 36 using the numbers below?

Can you find a way for each different operation?

1

2

3

4

5

6

7

8

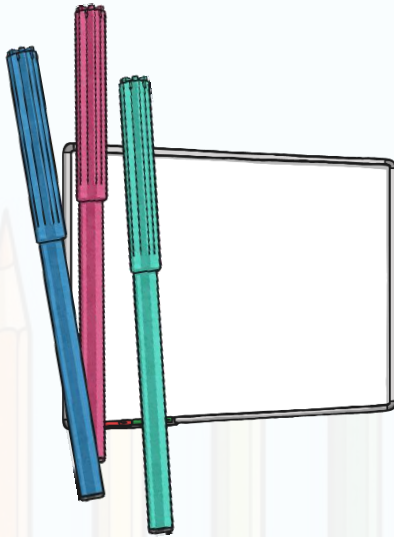
9



# Odd One Out

## Equipment

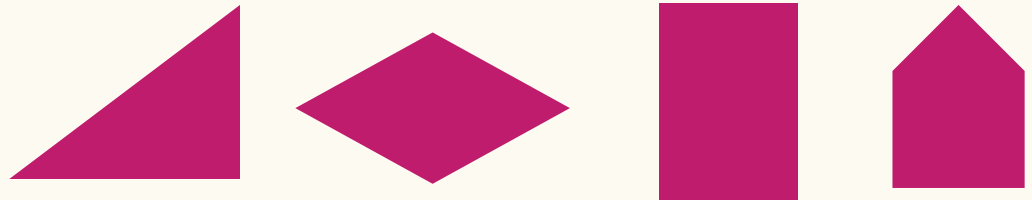
Whiteboard and pens



Home

Hide  
Answers

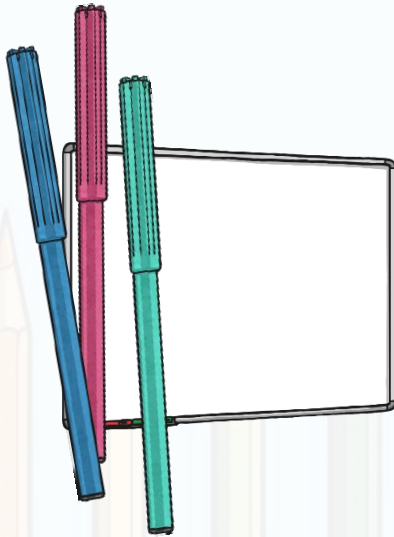
Look at each row of shapes.  
What is the odd one out in each group and why?  
(You may think differently to other people!)



# Sorting Time

## Equipment

Whiteboard and pens



Home

Hide  
Answers

Sort these periods of time from the shortest to the longest.

leap year

December

February

hour

millennium

second

century

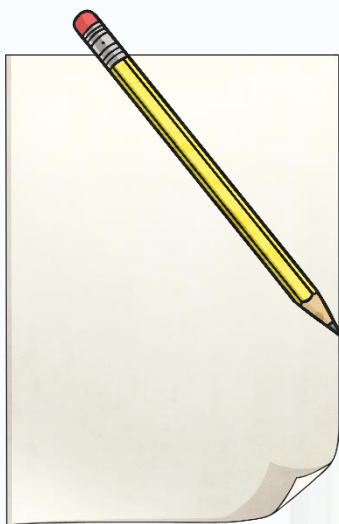
fortnight

Can you think of a linked fact for each one? For example, how many hours in one day?

# Perimeters

## Equipment

Centimetre squared paper and pencils



Use squared paper.

How many different shapes can you draw with a perimeter of 8cm?

What is the area of each shape?

How many different shapes can you draw with a perimeter of 20cm?

Which shape has the largest area?

Which has the smallest area?

Home

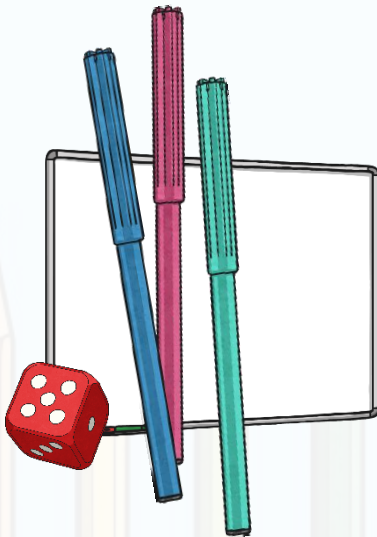
Hide  
Answers

Answers will vary.

# Rounding Decimals

## Equipment

Whiteboard and pens  
2 0-9 dice



Roll the two dice to create a decimal number.  
Round the number to the nearest whole one.  
Repeat this so that you have eight decimal numbers.  
List your decimal numbers in order from largest to smallest.

7 . 6 → 8

Home

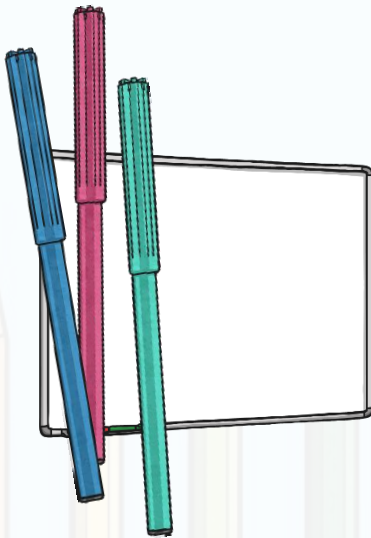
Hide  
Answers

Answers will vary.

# Estimating Calculations

## Equipment

Whiteboard and pens



Home

Hide  
Answers

Sort these calculations into two lists: those with answers greater than 50 and those with answers smaller than 50.

Don't work out the calculations – just estimate the answers!

$100 - 63$

$23 \times 8$

$500 \div 2$

$14 \times 3$

$18 \times 6$

$72 \div 9$

$268 - 199$

$\frac{2}{3}$  of 120

$843 - 789$

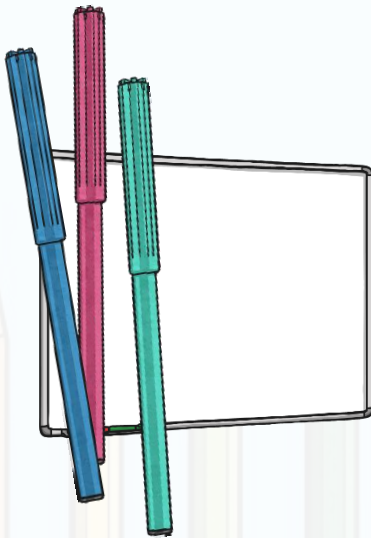
$\frac{1}{2}$  of 96

Smaller than 50	Greater than 50

# Darts

## Equipment

Whiteboard and pens



Home

Hide  
Answers

What is the highest total you could score with three darts?

150

What is the lowest total you could score With three darts?

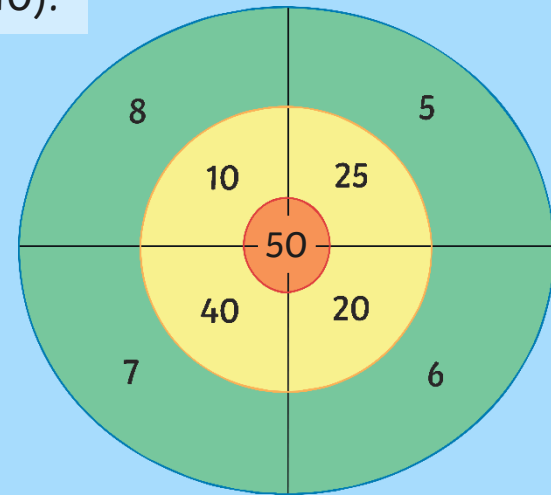
15

How many ways can you find to score 100?

Three ways: (50, 25 and 25), (40, 40 and 20) and (50, 40 and 10).

How many different ways can you find to make a score with a '3' in the ones column?

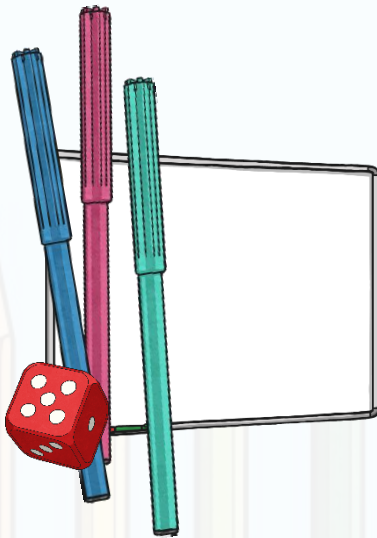
There are 12 different ways:  
Each using a multiple of 10 and either 8 and 5, 8 and 25 or 7 and 6.



# All the Numbers

## Equipment

Whiteboard and pens  
4 0-9 dice



Roll four dice. Use the numbers to create as many four-digit numbers as you can.

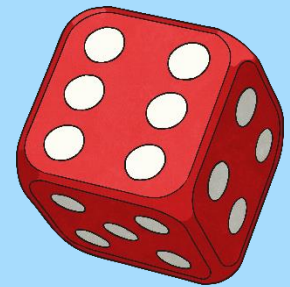
What is the largest number you can make?

What is the smallest number?

What is the number closest to 5000 that you can make?

How many odd numbers can you make?

Write your numbers in ascending order.



Home

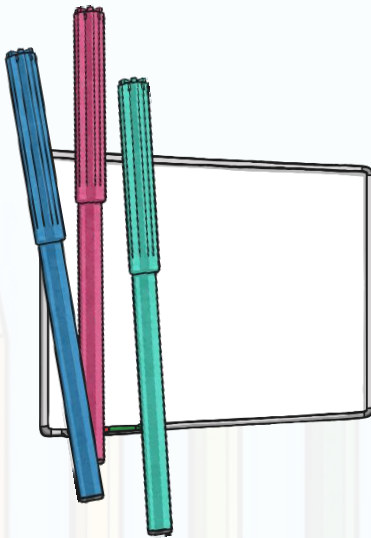
Hide  
Answers

Answers will vary.

# Label It

## Equipment

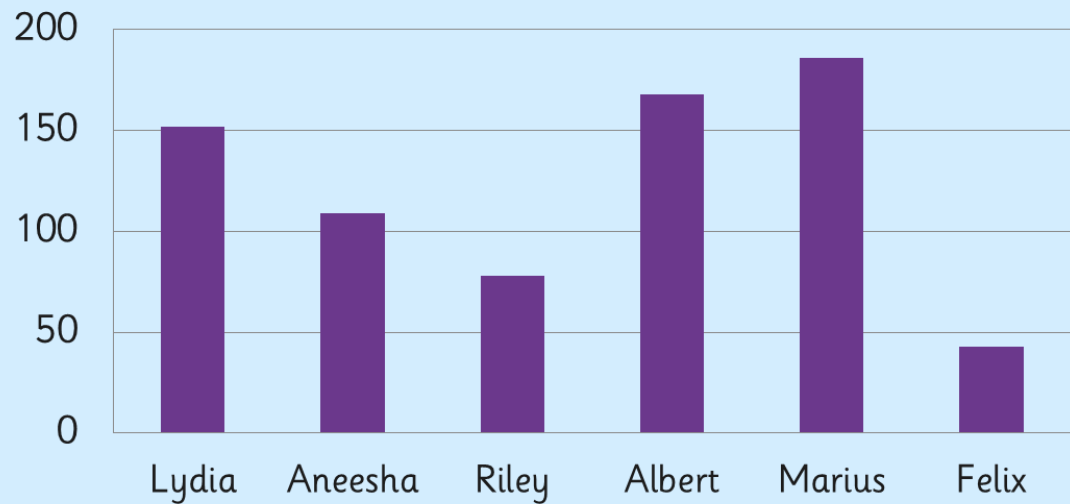
Whiteboard and pens



Home

Hide  
Answers

What do you think this bar chart is showing?  
What information could have been collected from the children?  
What labels would each axis need? What should the title be?



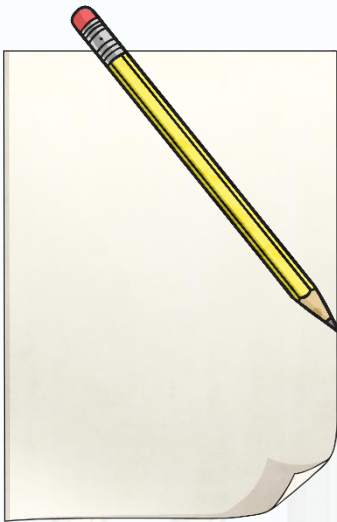
Answers will vary.



# Area

## Equipment

Centimetre squared paper and pencils

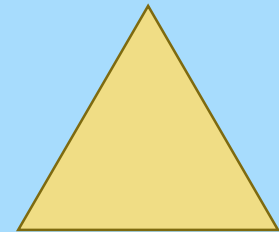
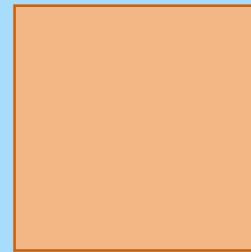
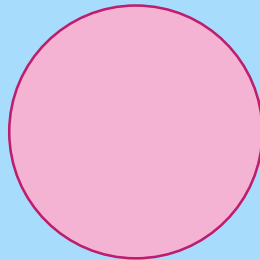


Home

Hide  
Answers

Draw as many different shapes as you can with an area of  $24\text{cm}^2$ .

What is the perimeter of each shape?  
Which shapes have at least one line of symmetry?



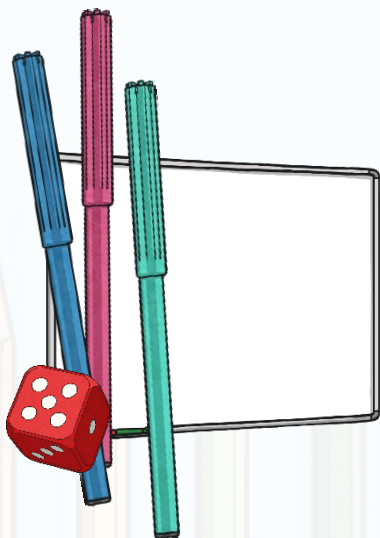
Answers will vary depending on the shapes drawn, but could include the following:

Rectangles 8cm by 3cm, 12cm by 2 cm, 24 cm by 1cm.

# Roll the Dice: Fractions

## Equipment

Whiteboard and pens  
2 0-9 dice per pair



Roll the die to fill in the numerator and denominator of a fraction.

If your fraction is greater than one, you score a point!

Take turns – who has the highest score?


Home

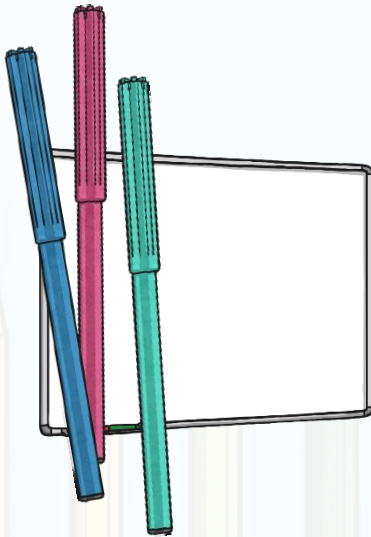
Hide  
Answers

Answers will vary.

# Comparing Roman Numerals

## Equipment

Whiteboard and pens



Home

Hide  
Answers

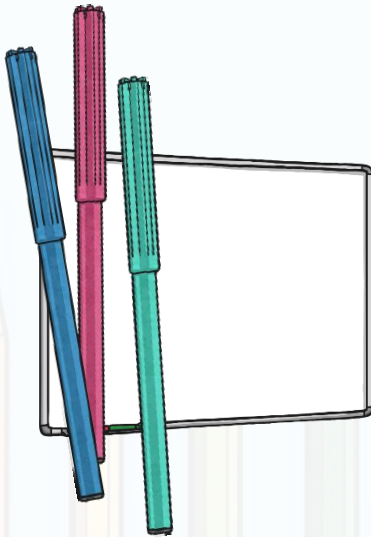
Use the signs  $<$  and  $>$  between each set of Roman numerals.

XIII	<input type="text"/>	XXX
X	<input type="text"/>	V
M	<input type="text"/>	C
XVII	<input type="text"/>	LXX
IV	<input type="text"/>	VI
DCC	<input type="text"/>	M
XXX	<input type="text"/>	LXXX
VI	<input type="text"/>	IV
LXXX	<input type="text"/>	XVIII
MMVI	<input type="text"/>	MMXVI

# Word Problems: Scaling Up

## Equipment

Whiteboard and pens



Home

Hide  
Answers

I need 3 eggs to make a batch of 12 cakes.  
How many eggs will I need to make 60 cakes?

One litre of fruit squash is made using 50ml  
of cordial. How much cordial will I need to  
make 10 litres of squash?

Each child needs 6 sticks to make a puppet.  
How many sticks will a class of 32 children  
need altogether?

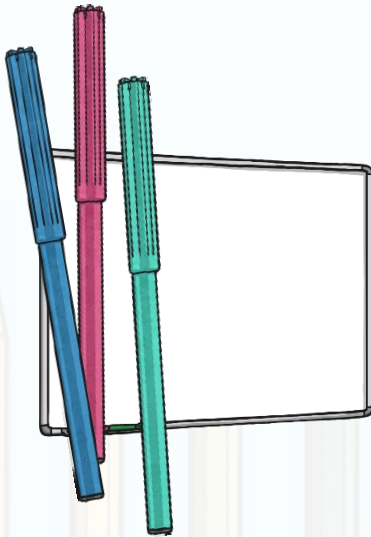
There are 8 pencils in a packet. How many  
pencils are there in 25 packets?

A set of 8 books costs £6.50. How much will  
12 sets of books cost? How many books will  
I have? 200 pencils

# Simple or Tricky

## Equipment

Whiteboard and pens



Look at the numbers below.

127

43

250

98

142

67

33

199

140

258

349

Which pairs of numbers would be easy to add and why?

Which would be tricky to add? How would you make adding them easier?

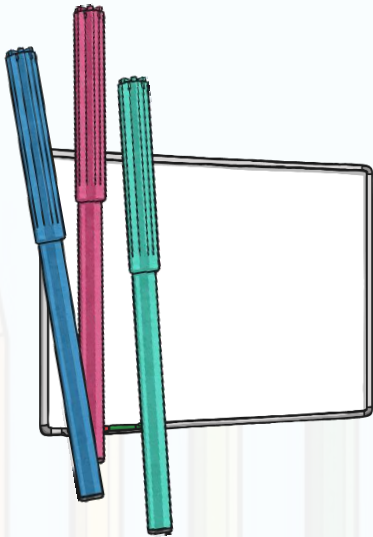
Home

Hide  
Answers

# Zeroes in the Middle

## Equipment

Whiteboard and pens



Write the subtraction calculation needed to give the answer zeroes in the tens place holder.

$$478 - 70$$

$$292 - 90$$

$$657 - 50$$

$$657 - 50$$

$$3581 - 580$$

$$955 - 50$$

$$244 - 40$$

$$9214 - 210$$

$$7506 - 0$$

$$8916 - 910$$

$$4856 - 850$$

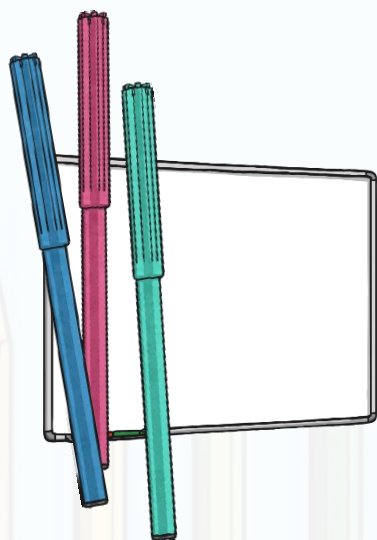
Home

Hide  
Answers

# It's Not Fair!

## Equipment

Whiteboard and pens



Home

Hide  
Answers

Some stickers have not been shared equally between Alesha and Hayden.

Work out how many more stickers Hayden has in each case.

Hayden: 134  
Alesha: 120

Hayden: 143  
Alesha: 125

Hayden: 90  
Alesha: 30

Hayden: 304  
Alesha: 186

Hayden: 310  
Alesha: 296

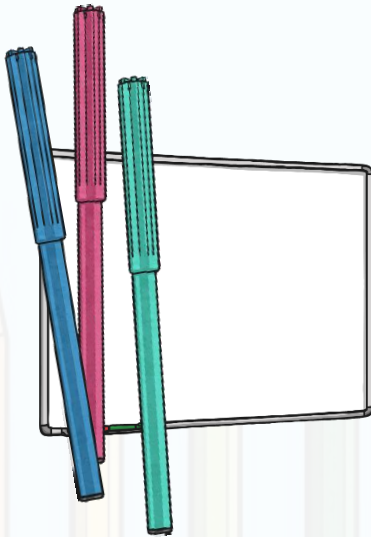
Hayden: 525  
Alesha: 495

Can you work out how many stickers each child should receive if each set of stickers were shared out fairly?

# Buying Beetles

## Equipment

Whiteboard and pens



Home

Hide  
Answers

Calculate how much it would be to buy a complete beetle.

### Baby Beetle

Body - £1.50

Leg - 15p

Head - £1.20

Wings - 95p

Antennae - 12p

### Adult Beetle

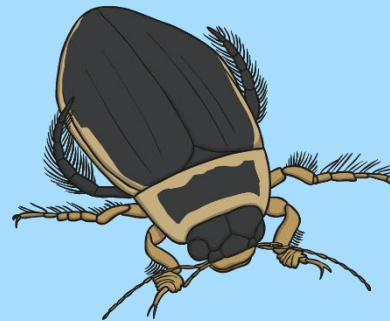
Body - £2.20

Leg - 14p

Head - £2.15

Wings - £1.55

Antennae - 11p

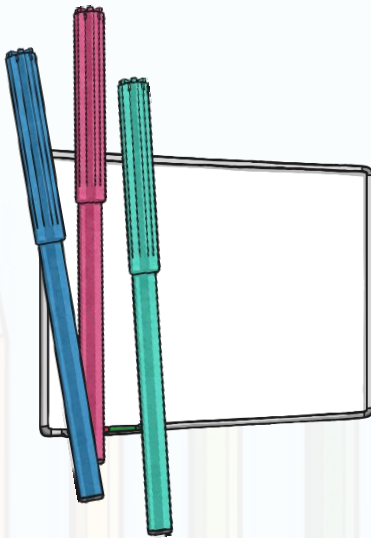




# Word Problems: Division

Equipment

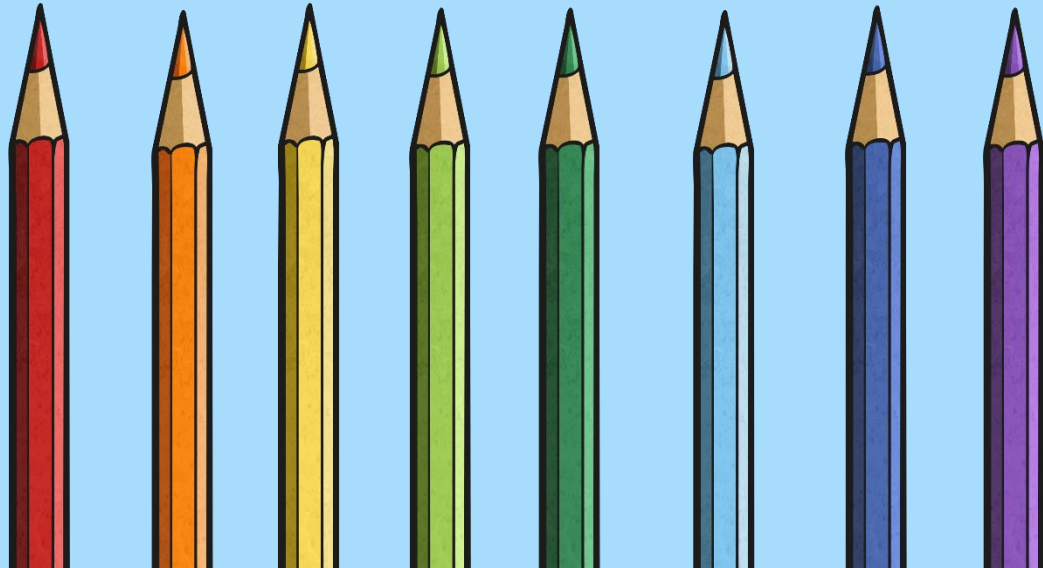
Whiteboard and pens



Home

Hide  
Answers

I have 60 pencils in my desk.  
I share them equally between my friends. There are  
no pencils left over.  
How many friends might I have?



Answers will vary, but should be one of the following numbers:  
1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60.

