

Maths Day 1

Week 1 - Measuring (M, CM, MM)

I can compare measurements in m, cm and mm.

- 1) Compare these measurements using $<$, $>$ or $=$.

50mm		5cm
29mm		3cm
2cm 4mm		5cm
3cm 5mm		34mm
178cm		2m
436cm		3m
1m 24cm		2m
2m 65cm		265cm

Useful Facts
1m = 100cm
1cm = 10mm



- 2) Order these measurements from shortest to longest.

a) 15cm 37mm 2m 1m 26cm

--	--	--	--

b) 62mm 1m 56cm 6cm 3m

--	--	--	--

c) 12cm 2m 99mm 197cm

--	--	--	--

d) 3cm 200cm 2m 50cm 38mm

--	--	--	--

- 3) Craig cuts 6 pieces of string. Some of the pieces he measures in cm, some he measures in mm, and some in mixed units (cm and mm).
Order the strings from longest to shortest:

piece A	100mm
piece B	12cm
piece C	45mm
piece D	10cm 2mm
piece E	6cm
piece F	4cm 3mm



longest			shortest		
piece	piece	piece	piece	piece	piece

- 4) Here are a group of friends' heights. Some heights are in cm, some are in m and cm.
Order the friends' heights from shortest to tallest:

Pavdeep	122cm
Scarlett	1m 45cm
Mohammed	1m 67cm
Tina	138cm
Joshua	1m 24cm
Stacey	153cm
Nikita	1m 52cm

shortest			tallest		

- 3) Craig cuts 6 pieces of string. Some of the pieces he measures in cm, some he measures in mm, and some in mixed units (cm and mm).
Order the strings from longest to shortest:

piece A	100mm
piece B	12cm
piece C	45mm
piece D	10cm 2mm
piece E	6cm
piece F	4cm 3mm



longest			shortest		
piece	piece	piece	piece	piece	piece

- 4) Here are a group of friends' heights. Some heights are in cm, some are in m and cm.
Order the friends' heights from shortest to tallest:

Pavdeep	122cm
Scarlett	1m 45cm
Mohammed	1m 67cm
Tina	138cm
Joshua	1m 24cm
Stacey	153cm
Nikita	1m 52cm

shortest			tallest		

Carrot Cakes

I can solve problems by scaling up and down.

This recipe makes 12 mini carrot cakes.

Ingredients

240ml vegetable oil
8 eggs
200g self-raising flour
320g caster sugar
1 teaspoon ground cinnamon
880g grated carrot



You are going to scale down the recipe to make 3 cakes.

How many times does 3 go into 12? _____

Choose the right words to fill the gaps and explain what you need to do.

To make the three cakes I need to _____ every ingredient by _____.

double multiply divide four two ten three eight

Now scale down the recipe.

vegetable oil: _____

eggs: _____

self-raising flour: _____

caster sugar: _____

ground cinnamon: _____

grated carrot: _____

Challenge

What if you needed 24 cakes?

Work out how much of each ingredient you would need then.

Can you complete the challenge?

Carrot Cakes

I can solve problems by scaling up and down.



Calculate the ingredients for these mini carrot cakes.

32 Cakes	16 Cakes How many 16s are in 32? (divide by___)	8 Cakes How many 8s are in 32? (divide by___)	4 Cakes How many 4s are in 32? (divide by___)
720ml vegetable oil			
24 eggs			
600g self-raising flour			
960g caster sugar			
4 teaspoons cinnamon			
2640g grated carrot			

Day 3 - Have a go at these puzzles.

Rank by difficulty

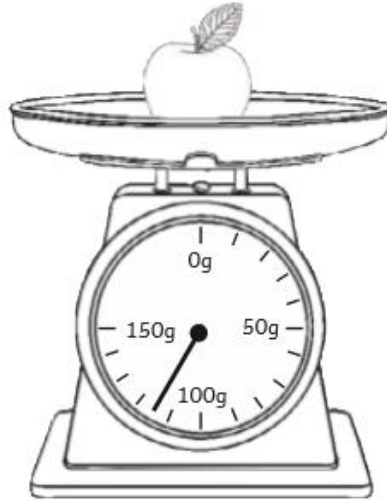
4 km = _____ metres

4 mm = _____ cm

4 minutes = _____ seconds

Which of these were the hardest to work out? Why do you think that is?

David weighs an apple. What is the mass of the apple?



Explain to an adult how you worked out the answer to this questions.

Day 4 - Have a go at these challenges. You may need some help from a grown up. Remember to read the puzzle carefully and have fun!

Measuring Length

How long is a strand of your hair? Place your hair near the first millimetre mark on the ruler. How wide do you think it is? If you have a microscope, look through that.



Measuring Length

How far does the toy car travel if you roll it down a slope? Which one goes the furthest?



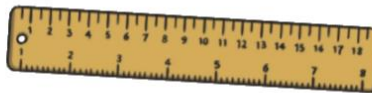
Measuring Length

Take a ball of string and cut off a piece as close to a metre as you can estimate. Ask someone else to do the same. Who was the closest? Repeat with other measurements.



Measuring Length

How many things can you find which measure exactly 15 cm?



Measuring Length

How many steps does it take you to reach the door? How about to the doorway of another room?



Measuring Length

How long is a £5 note? Are all notes the same size?



Measuring Length

Measure some shoes. Make a table comparing shoe size to length of shoe. Can you predict how long bigger shoes would be?



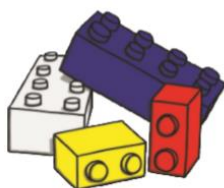
Measuring Length

Can you invent a unit to measure things with? E.g. the door is 16 matchsticks wide.



Measuring Length

How many building bricks tall are you?



Measuring Length

Measure your height. Then, with someone's help, measure the distance from fingertip to fingertip when you stretch your arms wide. Compare the distances - do you notice anything?



Day 5 - Instead of a Friday tables test, try the ultimate challenge. Do this each week, ask someone to time you and see how you improve.

Ultimate Times Table Challenge

Name:

Number Correct:

Time:

Previous Score:



$1 \times 1 =$	$11 \times 12 =$	$10 \times 12 =$	$3 \times 5 =$	$1 \times 9 =$	$7 \times 1 =$
$1 \times 5 =$	$1 \times 2 =$	$2 \times 5 =$	$4 \times 1 =$	$2 \times 9 =$	$4 \times 5 =$
$3 \times 1 =$	$3 \times 3 =$	$9 \times 12 =$	$3 \times 7 =$	$6 \times 1 =$	$3 \times 11 =$
$1 \times 4 =$	$4 \times 3 =$	$1 \times 3 =$	$11 \times 7 =$	$4 \times 9 =$	$3 \times 9 =$
$5 \times 1 =$	$8 \times 9 =$	$5 \times 5 =$	$8 \times 12 =$	$2 \times 7 =$	$5 \times 11 =$
$10 \times 3 =$	$6 \times 3 =$	$1 \times 11 =$	$2 \times 11 =$	$11 \times 11 =$	$1 \times 7 =$
$5 \times 3 =$	$9 \times 7 =$	$7 \times 5 =$	$7 \times 7 =$	$7 \times 9 =$	$10 \times 5 =$
$8 \times 1 =$	$10 \times 1 =$	$5 \times 7 =$	$6 \times 5 =$	$3 \times 8 =$	$8 \times 11 =$
$9 \times 1 =$	$9 \times 3 =$	$3 \times 10 =$	$9 \times 9 =$	$4 \times 7 =$	$8 \times 7 =$
$11 \times 9 =$	$6 \times 8 =$	$6 \times 11 =$	$10 \times 7 =$	$10 \times 9 =$	$10 \times 11 =$
$11 \times 1 =$	$11 \times 3 =$	$11 \times 5 =$	$2 \times 3 =$	$4 \times 11 =$	$8 \times 5 =$
$12 \times 5 =$	$12 \times 12 =$	$5 \times 4 =$	$12 \times 7 =$	$12 \times 9 =$	$12 \times 11 =$
$2 \times 1 =$	$8 \times 3 =$	$6 \times 7 =$	$1 \times 12 =$	$1 \times 10 =$	$7 \times 3 =$
$2 \times 2 =$	$9 \times 11 =$	$2 \times 6 =$	$2 \times 8 =$	$2 \times 12 =$	$7 \times 6 =$
$11 \times 4 =$	$3 \times 4 =$	$5 \times 9 =$	$12 \times 2 =$	$2 \times 4 =$	$1 \times 6 =$
$4 \times 2 =$	$4 \times 4 =$	$4 \times 6 =$	$6 \times 9 =$	$4 \times 10 =$	$9 \times 5 =$
$5 \times 2 =$	$10 \times 2 =$	$12 \times 1 =$	$5 \times 8 =$	$3 \times 6 =$	$7 \times 11 =$
$7 \times 4 =$	$6 \times 4 =$	$6 \times 6 =$	$12 \times 3 =$	$6 \times 2 =$	$8 \times 4 =$
$7 \times 2 =$	$9 \times 2 =$	$2 \times 10 =$	$5 \times 10 =$	$1 \times 8 =$	$5 \times 6 =$
$7 \times 8 =$	$6 \times 10 =$	$12 \times 10 =$	$12 \times 4 =$	$8 \times 10 =$	$8 \times 2 =$
$10 \times 4 =$	$9 \times 4 =$	$3 \times 12 =$	$9 \times 8 =$	$12 \times 8 =$	$8 \times 6 =$
$11 \times 6 =$	$9 \times 6 =$	$10 \times 6 =$	$3 \times 2 =$	$4 \times 12 =$	$9 \times 10 =$
$11 \times 2 =$	$6 \times 12 =$	$5 \times 12 =$	$11 \times 8 =$	$11 \times 10 =$	$8 \times 8 =$
$7 \times 12 =$	$10 \times 10 =$	$12 \times 6 =$	$7 \times 10 =$	$4 \times 8 =$	$10 \times 8 =$