

NAME: _____

GRADE: _____

MATHS WORKSHEETS

THIRD TERM

MEASUREMENT

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Length (practical measurement)		2
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Mathletics: www.mathletics.co.za

- Conversions and divisions
- What and Where?

LENGTH

PRACTICAL MEASUREMENT

Work with a partner and measure with a tape measure the following.

	Me	My partner	The difference in cm
Around the head	_____ cm	_____ cm	_____ cm
Length of hand	_____ cm	_____ cm	_____ cm
Length of arm	_____ cm	_____ cm	_____ cm
Around the chest	_____ cm	_____ cm	_____ cm
Length of leg	_____ cm	_____ cm	_____ cm



Using a ruler, measure the following items.

Item	
Width of maths book	___ cm ____ mm
Length of your pencil	___ cm ____ mm
Length of pencil case	___ cm ____ mm
Width of this worksheet	___ cm ____ mm

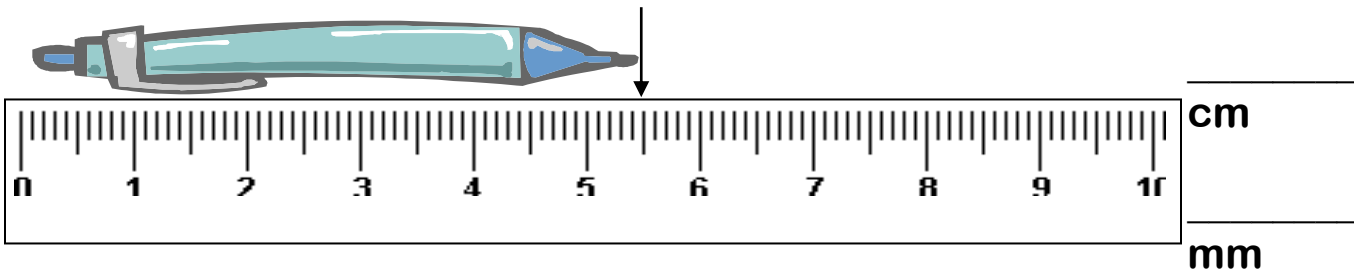
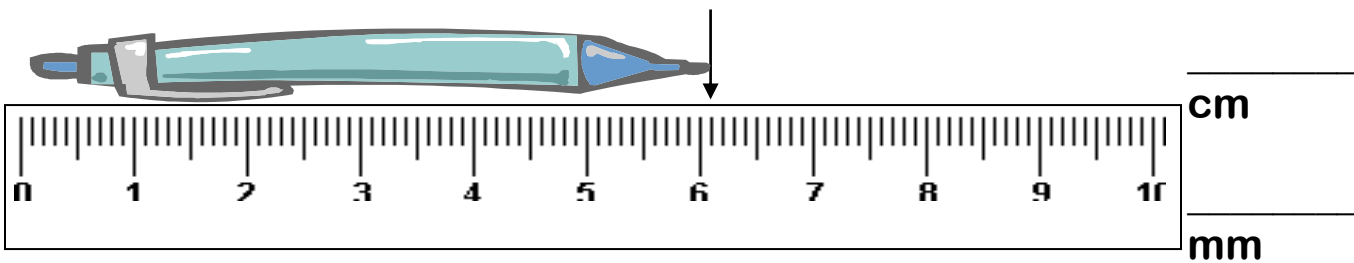
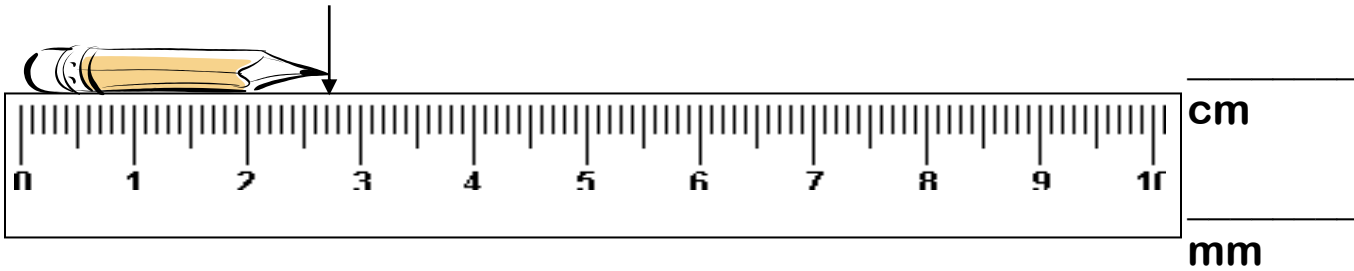
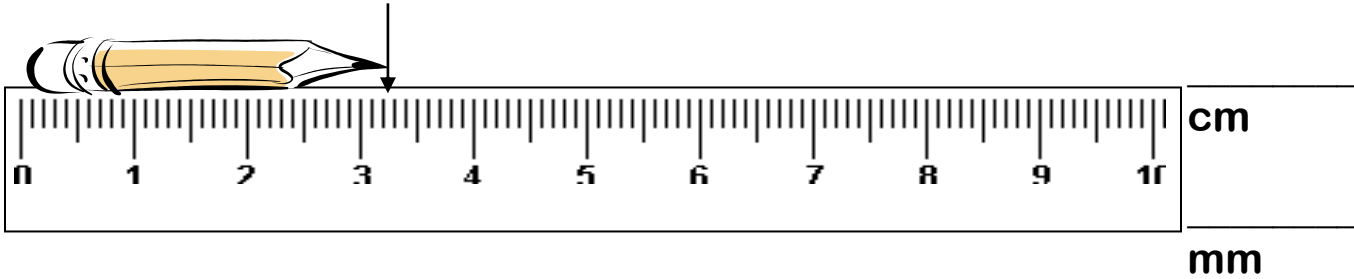
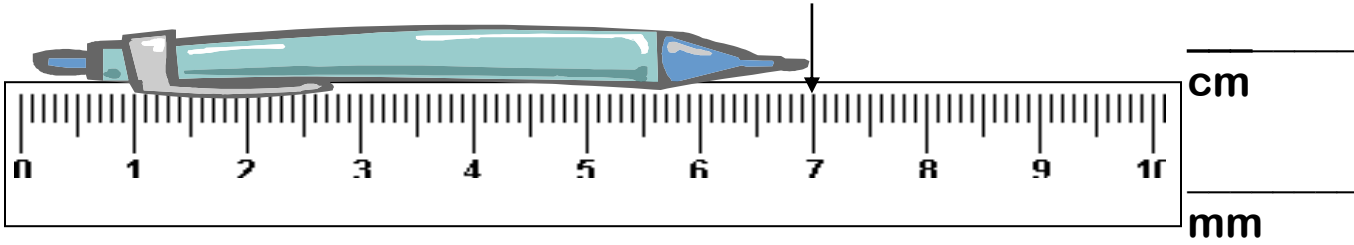
EQUIVALENT LENGTHS

1 cm = 10 mm	1m = 1000 mm	1 m = 100 cm	1 km = 1000 m
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1. 30 mm = _____ cm	2. 13 cm = _____ mm	3. 80 mm = _____ cm
4. 40 cm = _____ mm	5. 9 m = _____ mm	6. 1 km = _____ m
7. 2000 m = _____ km	8. 6 km = _____ m	9. 6000 mm = _____ m

Measuring length in cm and mm

Write down the lengths marked on each ruler below.



MEASURING LINES IN CM

- Measure the following lines using a ruler and write the measurements in the boxes provided.



INSTAMATHS EXERCISES

Length	Instamaths 76	Total 10	Your mark:
Convert, add and subtract length	Instamaths 77	Total 20	Your mark:

MASS

1 tonne (t) = 1 000 kilograms (kg)
1 kilogram (kg) = 1 000 grams (g)
1 gram (g) = 1 000 milligrams (mg)

Change into kg or tonnes.

1. 2 000 kg = _____ t	2. 5 tonnes = _____ kg
3. 8 500 t = ___ t _____ kg	4. 1 250 kg = ___ t _____ kg

Change into g or mg.

2 kg = _____ g	2 kg = _____ g
6 g = _____ mg	1 g = _____ mg

Change into kilograms or grams.

2000 g = _____ kg	500 g = _____ mg	250 g = _____ kg
$\frac{1}{2}$ Kg = _____ g	$\frac{3}{4}$ kg = _____ g	$\frac{1}{4}$ Kg = _____ g
3 Kg = _____ g	6453 g = _____ k g	8g = _____ kg

Work out the answers to these sums. (Revise before doing)

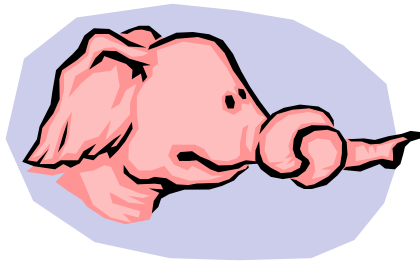
1. 3455 g + 34 g + 1 kg (convert kg into g)	
2. 126 mm + 24 cm + 2479 mm (convert cm into mm)	
3. 7435 kg – 3782 kg	
4. 5 litres – 359 ml (convert litres into ml)	
5. 2467 tonnes x 7	7. 9840 litres ÷ 4
6. 682 ml x 25	8. 7587 km ÷ 9

Problem Solving:

1. I am baking a cake and I put $\frac{1}{4}$ Kg of flour in the one bowl and $\frac{1}{2}$ Kg of sugar in another bowl. How much did the dry ingredients weigh altogether.
(Hint: change the $\frac{1}{4}$ Kg and $\frac{1}{2}$ Kg into grams and work the sum out in grams.)
2. A baby is born weighing 5 kg. He loses 100 g every week for 4 weeks. How much does he then weigh? (Hint: change the 5 kg to grams. It will be easier to work with.)
3. I sent two parcels to my friend in Australia. One parcel weighed 1kg 352 grams and the other weighed 421 grams. How much did the two parcels weigh altogether? (Hint: convert all numbers to g.)
4. I was sent two presents for my birthday! One present weighed 6 kg 436 g and the other 2 kg 100 g. What was the difference in weight between the two? (Hint: convert all numbers to g.)

INSTAMATHS EXERCISES

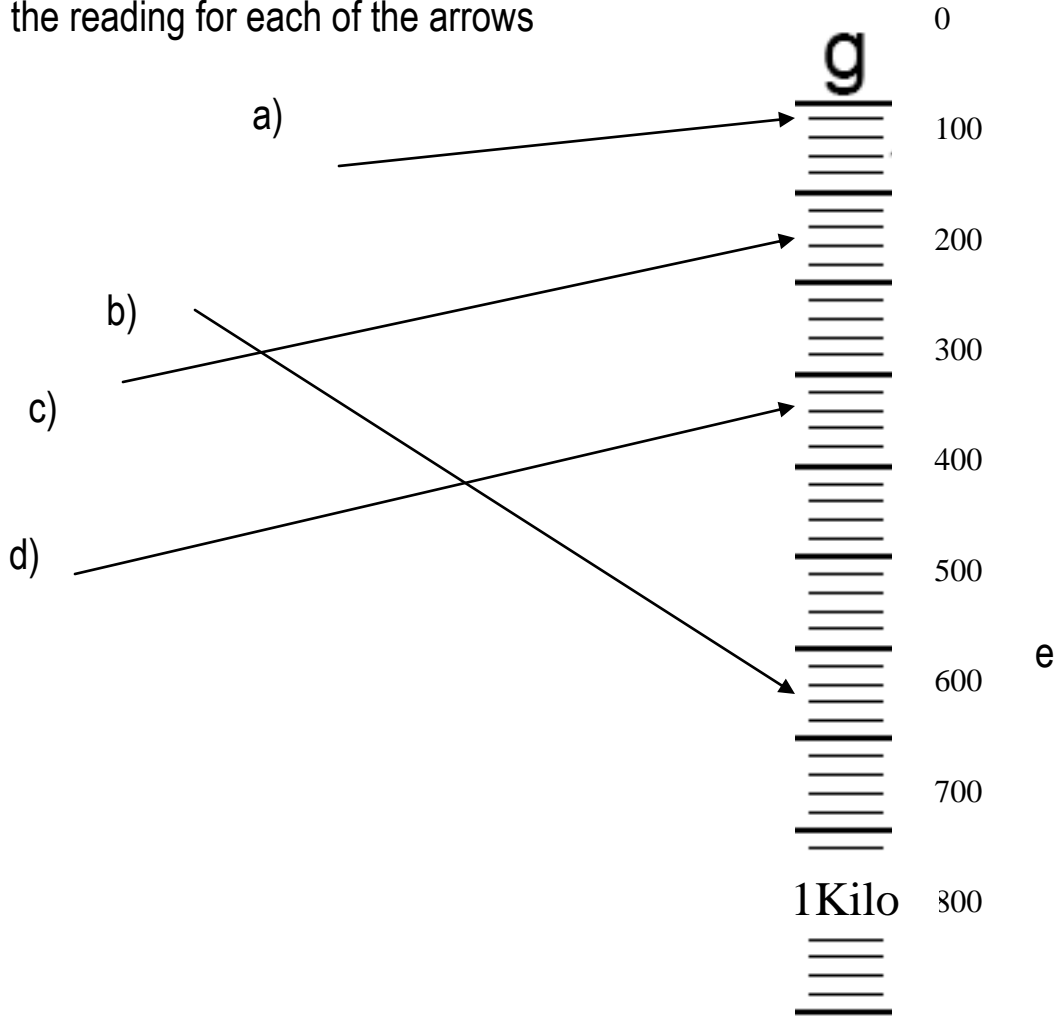
Mass	Instamaths 78	Total 10	Your mark:
Mass: conversion	Instamaths 79	Total 10	Your mark:



READING SCALES (1)

The scale shows 1 kilogram, each big division is 100 grams, each small division is 20 grams. Please take the point of the arrow to be on the nearest line.

Write in the reading for each of the arrows



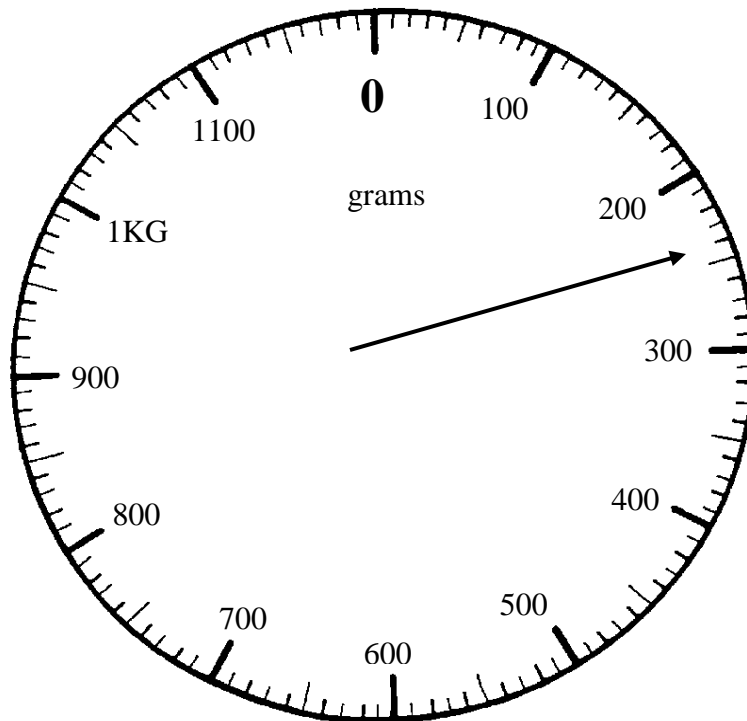
A SPRING BALANCE SCALE

Please write the answer in grams.

a)	b)	c)	d)
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READING SCALES (2)

Weighing scales can be read like a clock, the dial indicator moves as the weight increases. Each big line is 100g, each small line is 10g, and the arrow shows 220 g



Draw arrows on the scale to show these weights. Please use a ruler and point right up to the place you are marking.

- a) 520g (orange)
- b) 400g (blue)
- c) 960g (green)
- d) 1000g (red)

CAPACITY (PRACTICAL)

Measure 1 litre, then 500 ml to get acquainted with the amounts. Choose 3 different containers at home and list them in the first column. First estimate the capacity of the container and then measure it carefully. Write the measurements down neatly in the correct columns. Please write ml or litres (as a cursive l) next to your answer.

Object	Estimation	Capacity
1.		
2.		
3.		

EXERCISE 1: Please do not write a number only for your answer. You must write a word as well.

1. If I have a litre of water and I drink half of it, how many ml do I have left?	_____
2. A can of coke is 300 ml. I drink half of it. How much do I have left?	_____
3. I need a total of 500 ml to water my plants and my watering can holds 100 ml. How many times do I need to fill it up?	_____
4. If I have 400 ml in a bottle and I add 600 ml, how much do I now have?	_____
5. If I pour 30 ml of water into a bowl and 50 ml of milk. How much liquid is there in total.	_____
6. A cup of tea is 50 ml and I drink 4 cups a day. How many ml of tea do I drink in a day?	_____

CONVERSION EXERCISES

1 Litre = 1000 ML

1 Kilolitre = 1000 Litres

EXERCISE 1

Convert the following ml into litres and milliliters. Look at the following examples

1245 ml = 1 litre 245 ml	1034 ml = 1 litre 34 ml	2 ml = 0 litre 2 ml
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1) 1237ml	___ l _____ ml	2) 97 ml	___ l _____ ml
3) 8 ml	___ l _____ ml	4) 5 487 ml	___ l _____ ml

EXERCISE 2

Convert these capacities into ml and litres eg. 1 litre 400 ml = 1400 ml;

6 kl 300 litres = 6000 litres

1) 1 litre 7 ml	_____ ml	2) 1 litre 79 ml	_____ ml
3) 1 litre 122 ml	_____ ml	4) 1 litre 435ml	_____ ml
5) 7kl 254 litres	_____ litres	6) 0 1 756 litres	_____ litres

CAPACITY

1. I drink 1344ml of my 2 litre coke. How much is left? (Hint: change 2 litres into ml) _____
2. A bath holds 80 litres, a shower takes 35 litres and watering the garden takes 179 litres. How much would be left if my water tank at the start had 642 litres?
3. A jar has 560ml of jam. 342ml is used. How much is left?
4. You have collected some rain water in a bucket. The bucket holds 5565ml. I use 3765ml to water some plants. How much is left?



INSTAMATHS EXERCISES

Capacity	Instamaths 80	Total 10	Your mark:
Reading capacity markings	Instamaths 81	Total 10	Your mark:

Perimeter and area	Instamaths 82	Total 10	Your mark:
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MEASUREMENT: Please highlight the correct units.

7am - I had a wash in 3 (**SECONDS, LITRES, ML**) of water.

7.30am - For breakfast I had 200 (**KILOGRAMS, MILLIGRAMS, GRAMS**) of cereal, with 100 (**GRAMS, MILLILITRES, LITRES**) of milk. I also had a cup of tea, with $\frac{1}{2}$ a (**GRAM, LITRE, METRE**) of sugar in it.

8.10am - I had to run for the bus today. The bus stop is 100 (**METRES, MILES, MILLIMETRES**) away from my house.

11.00am - During break I shared out a LITRE bottle of lemonade, between five glasses. We each had 200 (**LITRES, MILLILITRES, TONNES**) of lemonade.

3.15pm - This afternoon we had P.E. I kicked the football 14 (**METRES, CENTIMETRES, KILOMETRES**).

4.30pm - My brother is running in an Athletics competition this evening. He is running in the 1 500 (**METRES, KILOMETRES, MILLIMETRES**) event. He can run that distance in 6 (**MINUTES, HOURS, SECONDS**). My brother is taller than I am. He is 1,82 (**CENTIMETRES, KILOMETRES, METRES**) tall.

7.30pm - The road outside our house looks like a river! The main water pipe has burst and there are (**MILLILITRES, METRES, LITRES**) of water gushing down the road.

7.45pm - I am going to watch a film on TV. It is 1 $\frac{1}{2}$ (**MINUTES, HOURS, SECONDS**) long.

9pm - I have just weighed my pet hamster, Gerald. Well, I tried to weigh him, but he jumped off the scales just as the arrow reached 250 (**KILOGRAMS, GRAMS, MILLIGRAMS**).

9.30pm – Time for bed! I have to get up in 10 (**METRES, MINUTES, HOURS**). Before I went to sleep I had 250 (**MILLILITRES, MILLIGRAMS, MILLIMETRES**) of tea to drink.

MEASUREMENT: ORDERING NUMBERS

1) Put these prices in order, starting with the Lowest first.



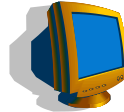
R350



R420



R876



R546



R89

2) Write these distances in order, starting with the shortest first.



100 CM

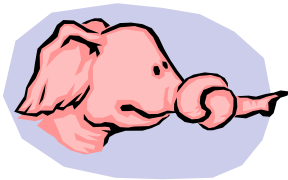


4 CM



9500 CM

3) Write these weights in order, starting with the largest first.



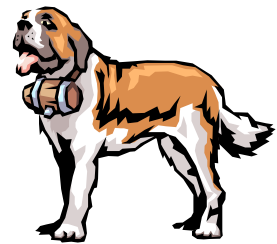
900 Kg



1 Kg



2500 Kg



12 Kg

MONEY : SHOPPING LIST

Tea	R5,50	Chocolate	R4,35
Coffee	R6,00	Hotdog	R3,25
Burger	R10,00	Doughnut	R4,95
Ice Cream	R7,55	Chips	R3,72



1. If I went shopping:

- a) how much would it cost me if I bought 3 tea, 2 hotdog and 1 burger?
- b) how much change would I get from a R50 note?

Tea	$R5,50 \times 3 =$	
Hotdog	$R3,25 \times 2 =$	
Burger	$R10,00 \times 1 =$	
Total spent		
Change from R50 note?	$R50,00 -$	



2. If I went shopping:

- a) how much would it cost me if I bought 3 bread, 2 ice-creams, 2 packets of chips and 4 coffees?
- b) how much change would I get from a R100 note?


3 chocolates		
2 ice-creams		
2 packet of chips		
4 coffees		
Change from R100 note?		



SUPERMARKET RECEIPTS (Calculator exercise)

Write in the balance (total) for each receipt and the change that would be given...

Pick n Pay Inspired by you	
	R
Cat food	8,21
Cat food	8,21
Peas	6,16
Yogurt	2,08
Potatoes	10,04
Balance due	_____
Cash	50,00
Change	_____

 SPAR	
	R
Sausages	11,10
Juice	11,50
Cheese	10,90
Beans	10,14
Batteries	12,50
Apple	10,06
Balance due	_____
Cash	100,00
Change	_____

ASDA	
	R
Tin foil	1,01
Eggs	0,99
Bread	0,60
Lemonade	1,20
Tomato sauce	0,81
Sunflower oil	0,40
Chicken	3,20
Balance due	_____
Cash	10,00
Change	_____

MONEY

Match each price in words to the same price in numbers. Colour the two in one colour. Choose another colour to colour the next pair and so on. In the end you will have 6 different coloured pairs.



R5,06 75c
 Fifty six cents R5,60 Seven rand fifty
 R75 R0,56
 R7,05 R7,50
 Seventy five cents Seven rand and five cents



Seventy five rand Five rand and sixty cents