MEASUREMENT

METRIC CONVERSIONS

1 centimeter	= 10 millimeters	1 cm	= 10 mn
1 meter	= 100 centimeters	1 m	= 100 cr
1 kilometer	= 1000 meters	1 km	= 1000 r

METRIC CONVERSIONS

1 sq centimeter	= 100 sq millimeters	1 sq cm	= 100 sq m
1 sq meter	= 10,000 sq centimeters	1 sq m	= 10,000 sc
1 hectare	= 10,000 sq meters	1 ha	= 10,000 sc
1 sq kilometer	= 100 hectares	1 sq km	= 100 ha
1 sq kilometer	= 1 million sq meters	1 sq km	= 1,000,00(

METRIC CONVERSIONS

1 cubic cm	= 1000 cubic mm	1 cu cm	= 1000 cu mm
1 cubic meter	= 1 million cubic cm	1 cu m	= 1,000,000 cu

METRIC CONVERSIONS

1 gram	= 1000 milligrams	1g	= 1000 mg
1 kilogram	= 1000 grams	1 kg	= 1000 g
1 tonne	= 1000 kilograms	1 tonne	= 1000 kg
1 megagram	= 1000 kilograms	1 Mg	= 1000 kg

METRIC CONVERSIONS

1 centiliter	= 10 milliliters	1 cl	= 10 ml
1 liter	= 1000 milliliters	1 l	= 1000 r
1 kiloliter	= 1000 liters	1 kl	= 1000 l

Converting mL and L (A)

Convert each measurement to the unit indicated.

789,000 mL to L

950,000 mL to L

19,500 mL to L

0.327 L to mL

3.4 mL to L

2.45 L to mL

9,110 mL to L

50,800 mL to L

91,200 mL to L

0.0398 L to mL

8.9 mL to L

75,200 mL to L

785,000 mL to L

971,000 mL to L

2,880 mL to L

52,300 mL to L

1.83 L to mL

8.35 L to mL

0.0000479 L to mL

9,770 mL to L

Converting g and kg (A)

Convert each measurement to the unit indicated.

6,200 g to kg	2,360 g to kg
8,300 g to kg	35,800 g to kg
345 g to kg	9,750,000 g to kg
0.242 kg to g	31,600 g to kg
2,110,000 g to kg	0.0711 kg to g
0.00767 kg to g	0.0000148 kg to g
2.83 kg to g	6.7 g to kg
0.00866 kg to g	870,000 g to kg
1,150,000 g to kg	0.000031 kg to g
0.00018 kg to g	36.5 g to kg

Converting Metric Units (A)

Convert each measurement to the unit indicated.

64,600,000 cm to km

0.000238 m to cm

0.00817 km to cm

0.0079 cm to mm

0.0000000332 km to mm

736,000,000 mm to km

0.21 km to m

2.7 m to km

0.00928 m to mm

6,310 cm to km

425,000 mL to L

6.81 cm to m

14,700 cm to m

0.00738 L to mL

60,800 cm to m

800 cm to m

0.703 km to m

0.000895 m to cm

0.00161 cm to mm

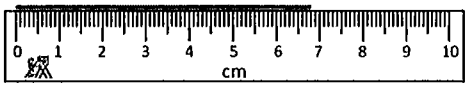
3.64 cm to mm

Name Date

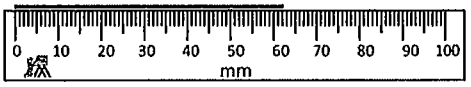
READING SCALES METRIC 5A

Use your knowledge of fraction and the number system to work out these measurements. Remember to write down the units of measurement.

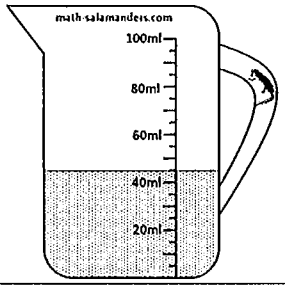
1) How long? _____



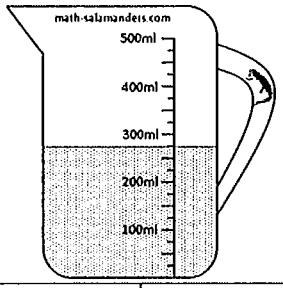
2) How long? _____



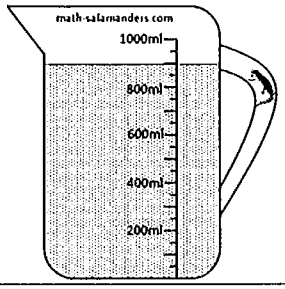
3) How much? _____



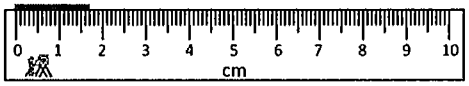
4) How much? _____



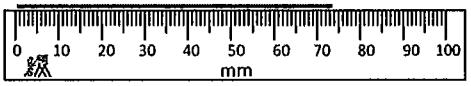
5) How much? _____



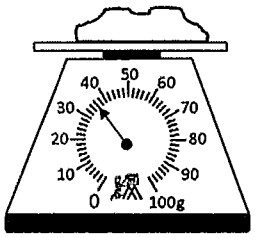
6) How long? _____



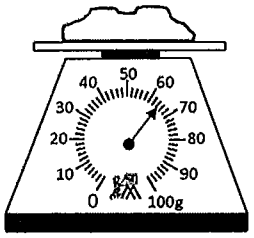
7) How long? _____



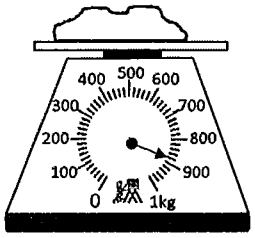
8) How heavy? _____



9) How heavy? _____



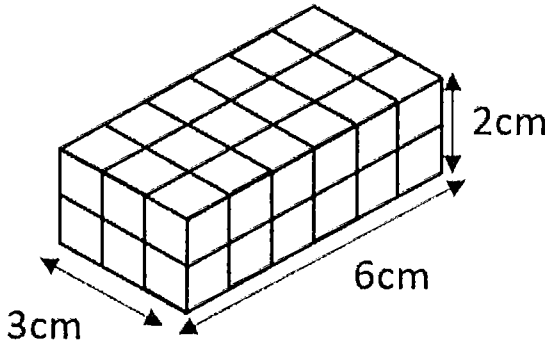
10) How heavy? _____



What is Volume?

- Volume is the amount of space that is inside a 3 dimensional shape.
- Because it is an amount of space, it has to be measured in cubes.
- If the shape is measured in cm, then the volume would be measured in cubic cm or cm^3
- If the shape is measured in inches, then the volume would be measured in cubic inches or in^3

Volume of a Rectangular Prism



- The volume of a rectangular prism is the number of cubes it is made from.
- To find the number of cubes, we need to multiply the length by the width by the height.
- So Volume = length x width x height or l x w x h.
- We could also multiply the area of the base (which is the length x width) by the height.
- So Volume = l x w x h or b x h (where b is the area of the base)

• Example

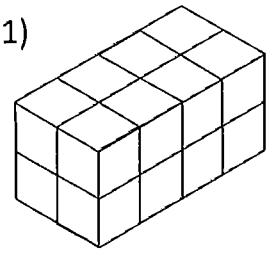
- In the example above, the length is 3, the width is 6 and the height is 2.
- So the volume is 3 x 6 x 2 = $36cm^3$ or 36 cubic cm.
- This tells us that there are 36 cm cubes that make up the shape.

Name Date

VOLUME: COUNT THE CUBES 2

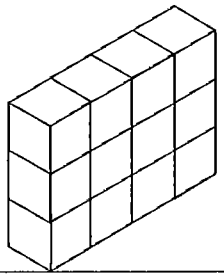
Write down the volume of each of these shapes by working out the number of cubes.

1)



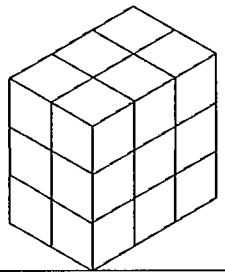
Volume: _____ cubes

2)



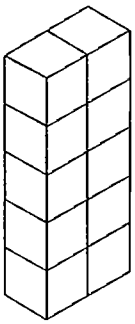
Volume: _____ cubes

3)



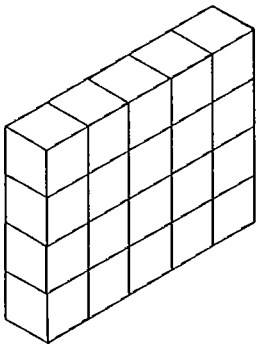
Volume: _____ cubes

4)



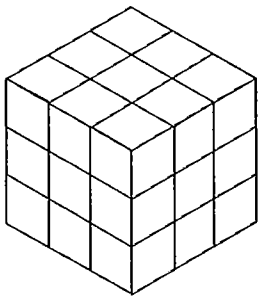
Volume: _____ cubes

5)



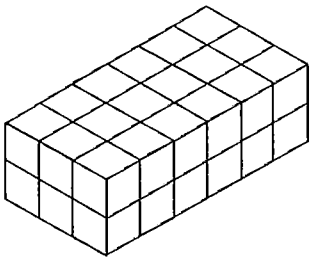
Volume: _____ cubes

6)



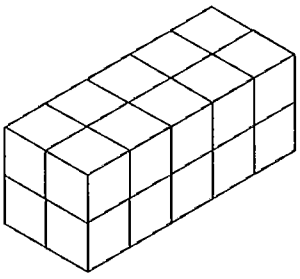
Volume: _____ cubes

7)



Volume: _____ cubes

8)

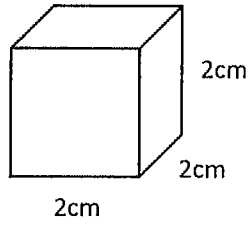


Volume: _____ cubes

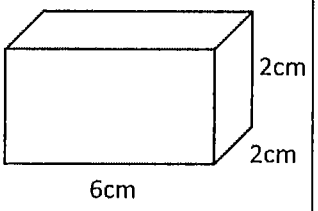
Name Date

FIND THE VOLUME 2 (METRIC)

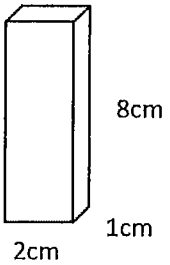
Find the volume of these rectangular prisms. They are not to scale!



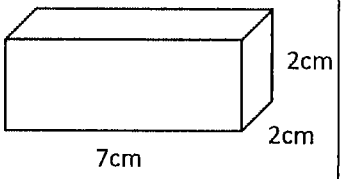
Volume = _____



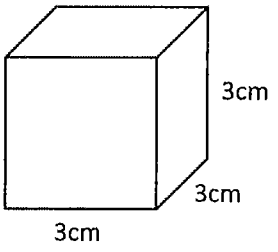
Volume = _____



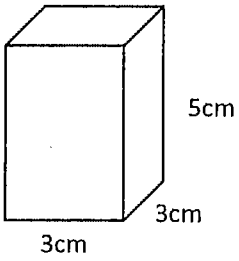
Volume = _____



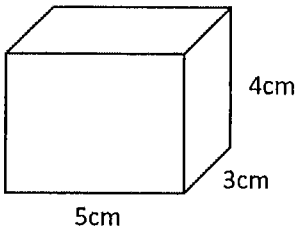
Volume = _____



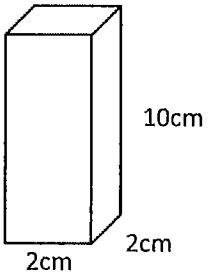
Volume = _____



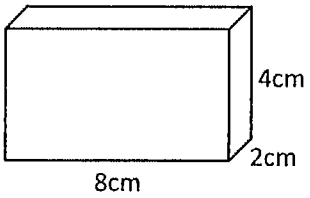
Volume = _____



Volume = _____



Volume = _____



Volume = _____

Name Date

VOLUME RIDDLES 5B

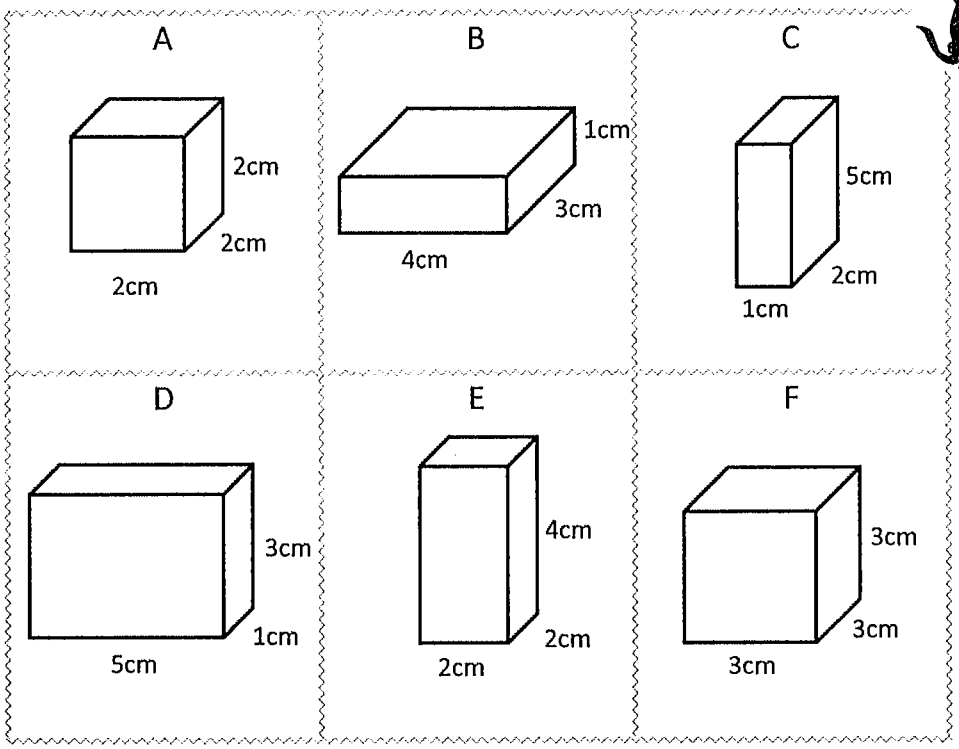
The answer for each riddle is one of the cuboids below.
Find the correct answer to each, and success is within your reach!

1)
- I am not a cube.
- I am less than 5cm high.
- My volume is more than $14cm^3$.
- My length and width are the same.
- Who am I?

Answer ___

2)
- I am more than 1cm high.
- I have at least one square face.
- My volume is less than $20cm^3$.
- Only two of my dimensions are the same.
- Who am I?

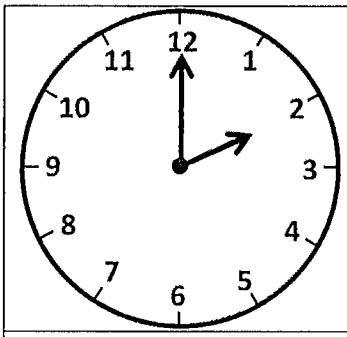
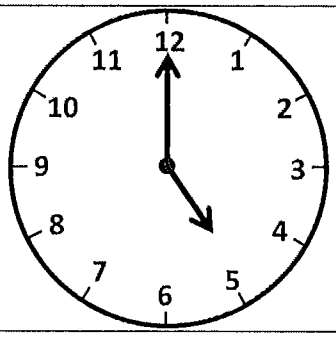
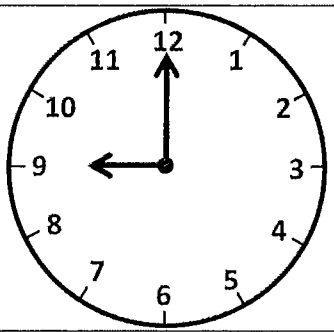
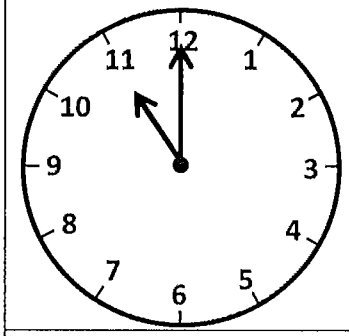
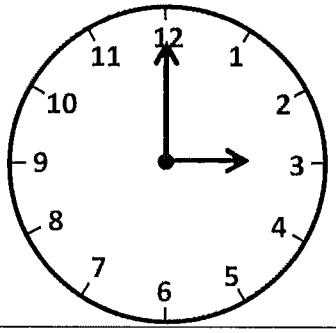
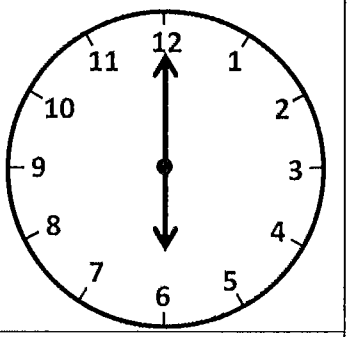
Answer ___



Name Date

TELLING THE TIME - O'CLOCK SHEET 1

Write the correct time underneath each clock. The first one has been done for you.

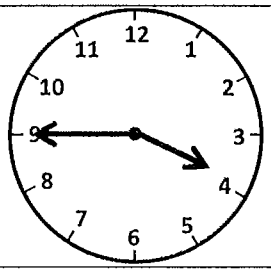
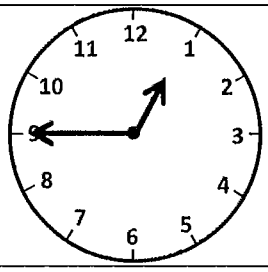
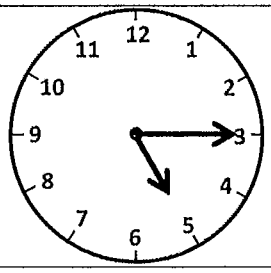
		
2 o'clock	____ o'clock	____ o'clock
		
____ o'clock	____ o'clock	____ o'clock

When the time is an o'clock, which number does the big hand point to?

Name Date

TELLING THE TIME - QUARTER PAST/TO SHEET 2

Write the correct digital time underneath each clock. The first one has been done for you.

		
3:45