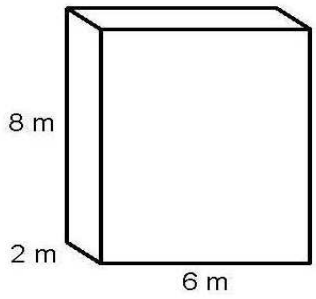
Name: _____ Class: _____ Number: _____ Date: _____

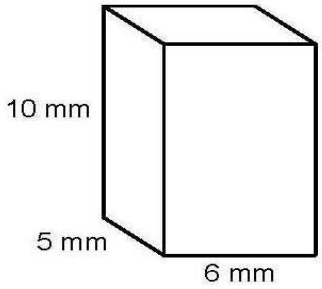
Volume of simple cubes and cuboids

(1)



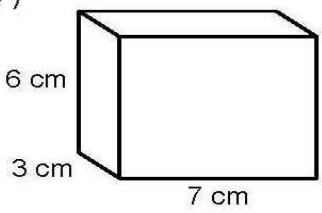
Volume: _____

(2)



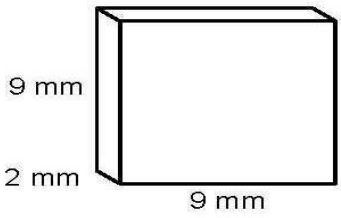
Volume: _____

(3)



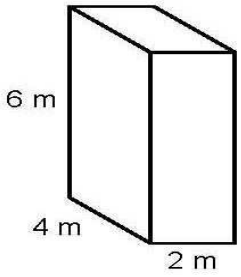
Volume: _____

(4)



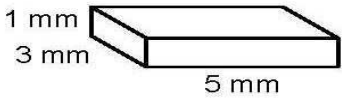
Volume: _____

(5)



Volume: _____

(6)



Volume: _____

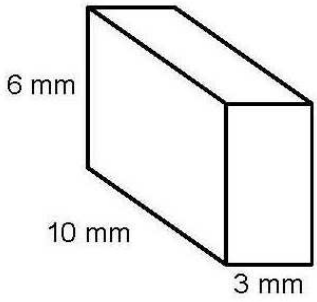
Grade 6
Test 2 – 2014 Math
Worksheet 1

Name: _____ Class: _____ Number: _____ Date: _____

Volume of simple cubes and cuboids

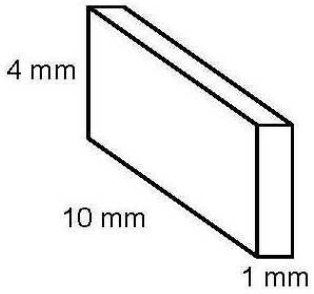
Calculate the volume of each solid.

(1)



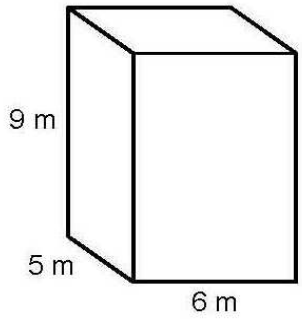
Volume: _____

(2)



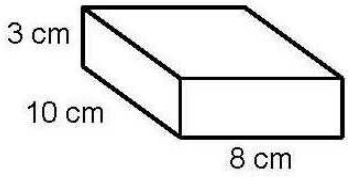
Volume: _____

(3)



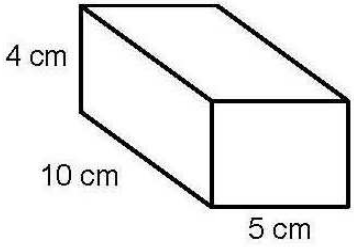
Volume: _____

(4)



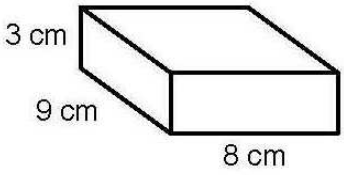
Volume: _____

(5)



Volume: _____

(6)

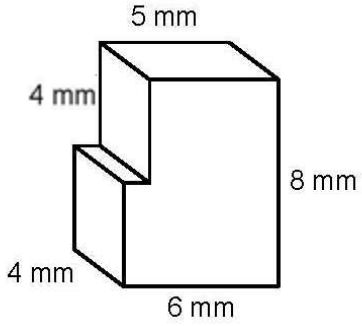


Volume: _____

Name: _____ Class: _____ Number: _____ Date: _____

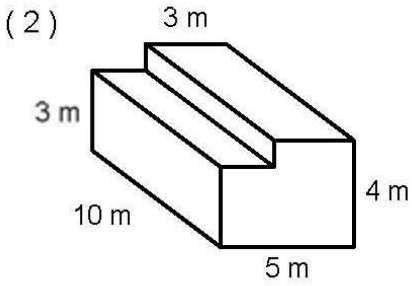
Volume of simple and complex cubes and cuboids

(1)



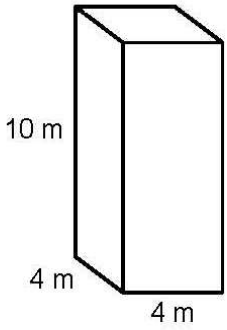
Volume: _____

(2)



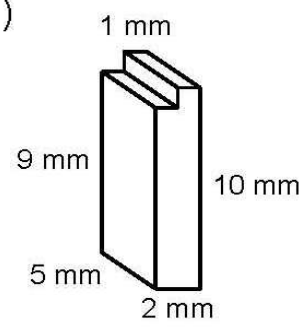
Volume: _____

(3)



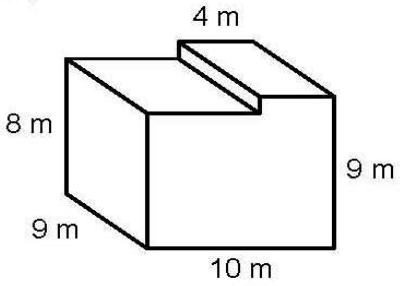
Volume: _____

(4)



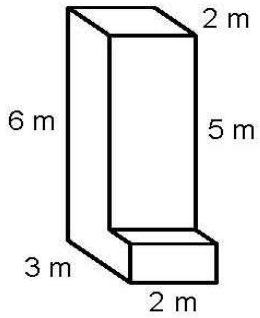
Volume: _____

(5)



Volume: _____

(6)



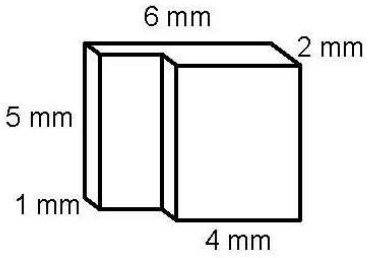
Volume: _____

Grade 6
Test 2 – 2014 Math
Worksheet 3

Name: _____ Class: _____ Number: _____ Date: _____

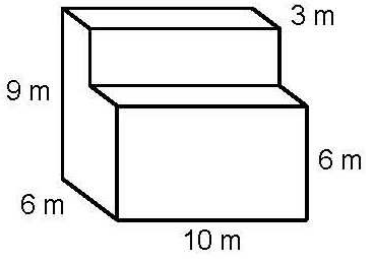
Volume of simple and complex cubes and cuboids

(1)



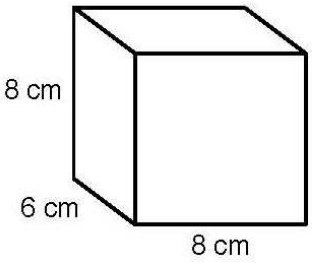
Volume: _____

(2)



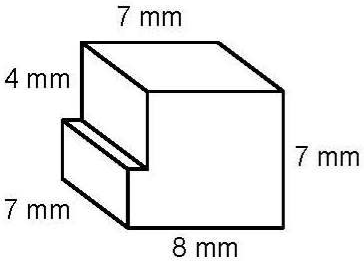
Volume: _____

(3)



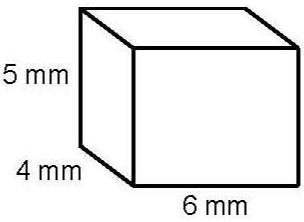
Volume: _____

(4)



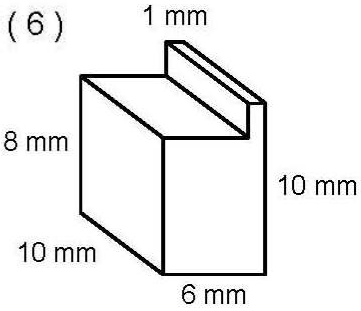
Volume: _____

(5)



Volume: _____

(6)



Volume: _____

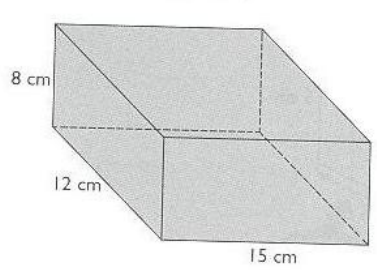
Grade 6
Test 2 – 2014 Math
Worksheet 4

Name: _____ Class: _____ Number: _____ Date: _____

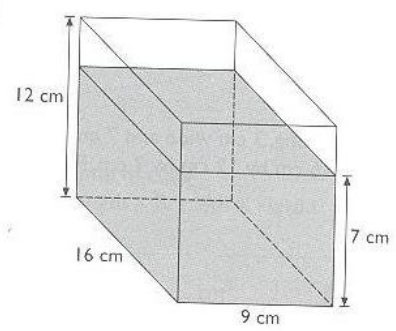
Volume of Liquids

1. Find the volume of water in each of the following tanks. Give your answer in litres.

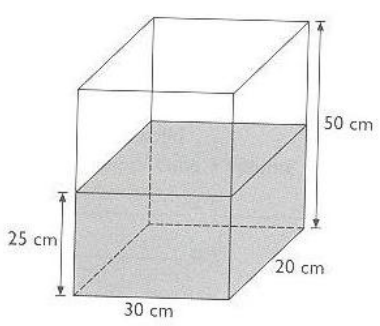
(a)



(b)



(c)



2. How much more water is needed to fill the above tanks? Answer in litres.

(a)

(b)

(c)

3. What fraction of each tank from question 1 is filled with water?

(a)

(b)

(c)

4. A car's petrol tank measures 50cm by 60cm by 20cm.

(a) How many litres of fuel can the petrol tank hold?

(b) If the tank can be filled at a rate of 0.2 L per second, how long will it take to fill the tank?

5. A container measures 20cm by 15cm by 5cm.

(a) It is one quarter full of water. How much water is in the container? Answer in millilitres.

(b) If it is leaking at a rate of 25 milliliters per second, how long will it take to empty the container?

Name:_____Class:_____Number:_____Date:_____

Pie charts –Working with Fractions and Percentages

In a pie chart, the fractions add up to 1.

Remember : 1 can equal 12/12, or 3/3 or 100/100.

$\frac{2}{6} + \frac{1}{6} +$ _____ $= \frac{6}{6} = 1$	$1 - \frac{4}{7} - \frac{1}{7} =$ _____
$\frac{4}{9} + \frac{1}{3} +$ _____ $= 1$	$1 - \frac{1}{5} - \frac{1}{3} =$ _____
$\frac{1}{4} + \frac{1}{2} +$ _____ $= 1$	$1 - \frac{2}{9} - \frac{4}{9} =$ _____
$\frac{3}{16} + \frac{3}{4} +$ _____ $= 1$	$1 - \frac{7}{20} - \frac{3}{10} =$ _____

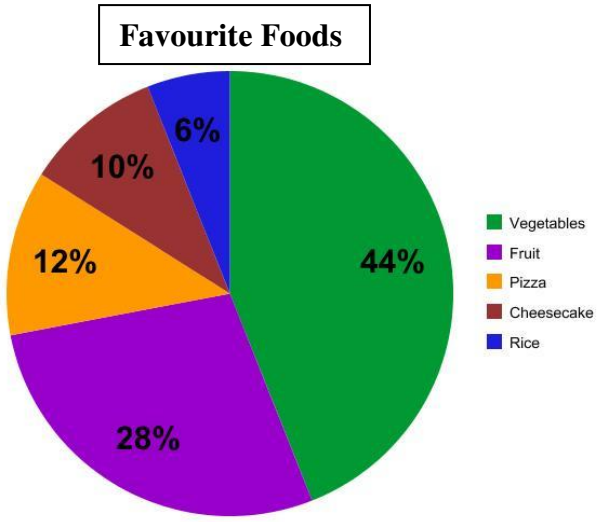
In a pie chart, the segments add up to 100%.

You can change a fraction to a percentage or find a percentage of a total.

Changing a fraction to a percentage Multiply the fraction by 100/1. eg. $\frac{1}{4} = \frac{1}{4} \times \frac{100}{1} = \frac{100}{4} = 25\%$	**Finding a percentage of a number** Divide the % by 100, then multiply it by the second number. eg. 4% of 50 = $\frac{4}{100} \times 50 = 2$
$\frac{16}{25} =$ _____ %	3% of 200 = _____
$\frac{6}{15} =$ _____ %	20% of 175 = _____
$\frac{3}{4} =$ _____ %	45% of 400 = _____
$\frac{6}{20} =$ _____ %	70% of 700 = _____

Name: _____ Class: _____ Number: _____ Date: _____

Pie Charts with Percent



1. If there are 200 students, how many chose:

a) Vegetables _____

b) Cheesecake _____

c) Pizza _____

d) Fruit _____

e) Rice _____

2. If there are 300 students, how many chose:

a) Vegetables _____

b) Cheesecake_____

c) Pizza _____

d) Fruit _____

e) Rice _____

3. If there are 50 students, how many chose:

a) Vegetables _____

a) Cheesecake_____

b) Pizza _____

c) Fruit _____

d) Rice _____

4. If there are 1000 students, how many chose:

a) Vegetables _____

b) Cheesecake_____

c) Pizza _____

d) Fruit _____

e) Rice _____

5. If there are 800 students, how many chose:

a) Vegetables _____

b) Cheesecake_____

c) Pizza _____

d) Fruit _____

e) Rice _____

Name: _____ Class: _____ Number: _____ Date: _____

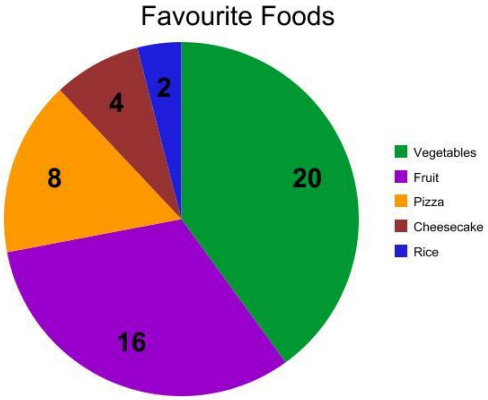
Pie Charts with Quantities

Question 1: There are 150 students and 25 of them chose red as their favourite colour. What fraction chose red?

Answer: 25 out of a total of 150 chose red, so the fraction is $\frac{25}{150}$. This can be simplified to $\frac{1}{6}$.

Question 2: There are 150 students and 12 chose blue as their favourite colour. What percentage chose blue?

$\frac{12}{150}$ changed to a percentage is $\frac{12}{150} \times \frac{100}{1} = \frac{12}{150} \times \frac{100}{\cancel{1}\,{}_{3}} = \frac{\cancel{24}\,{}^{2}}{3}$ **= 8%**



1. How many students are there in total? _____

2. What fraction chose the following (simplify your answer):

a) Vegetables _____

b) Fruit _____

c) Pizza _____

d) Cheesecake _____

e) Rice _____

3. How many more students chose vegetables than:

a) Fruit _____

b) Pizza _____

c) Cheesecake _____

d) Rice _____

4. What percentage chose the following:

a) Vegetables _____

b) Fruit _____

c) Pizza _____

d) Cheesecake _____

e) Rice _____

5. If there are 100 students altogether, how many chose:

a) Vegetables _____

b) Fruit _____

c) Pizza _____

d) Cheesecake _____

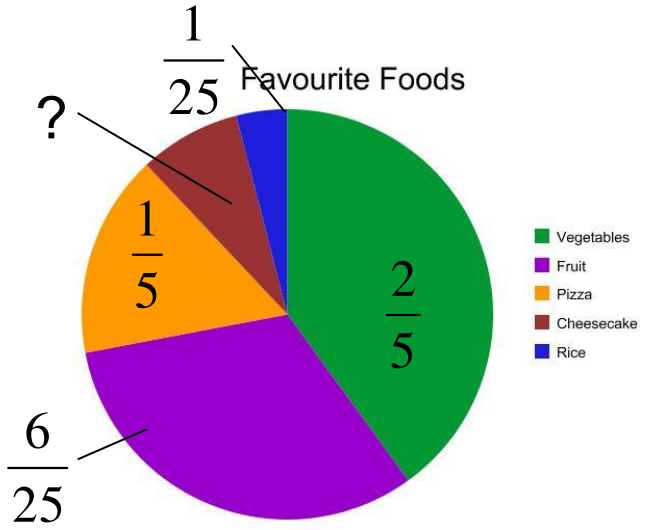
e) Rice _____

Name: _____ Class: _____ Number: _____ Date: _____

Pie Charts with Fractions

Question 1: There are 200 students and $\frac{1}{50}$ chose red as their favourite colour. How many chose red?

Answer: $\frac{1}{50}$ of 200 students is $\frac{1}{50}$ x 200 = $\frac{1}{50}$ x $\frac{200}{1}$ = **4** students



1. What fraction chose cheesecake? (hint: change all the fractions so they have the same denominator – the bottom number)

_____

2. If there are 50 students altogether, how many chose:

a) Vegetables _____

b) Fruit_____

c) Pizza _____

d) Cheesecake_____

e) Rice _____

3. If there are 25 students altogether, how many chose:

a) Vegetables _____

b) Fruit_____

c) Pizza _____

d) Cheesecake_____

e) Rice _____

4. If there are 2000 students altogether, how many chose:

a) Vegetables _____

b) Fruit_____

c) Pizza _____

d) Cheesecake_____

e) Rice _____

5. If there are 100 students altogether, how many chose:

a) Vegetables _____

b) Fruit_____

c) Pizza _____

d) Cheesecake_____

e) Rice _____