

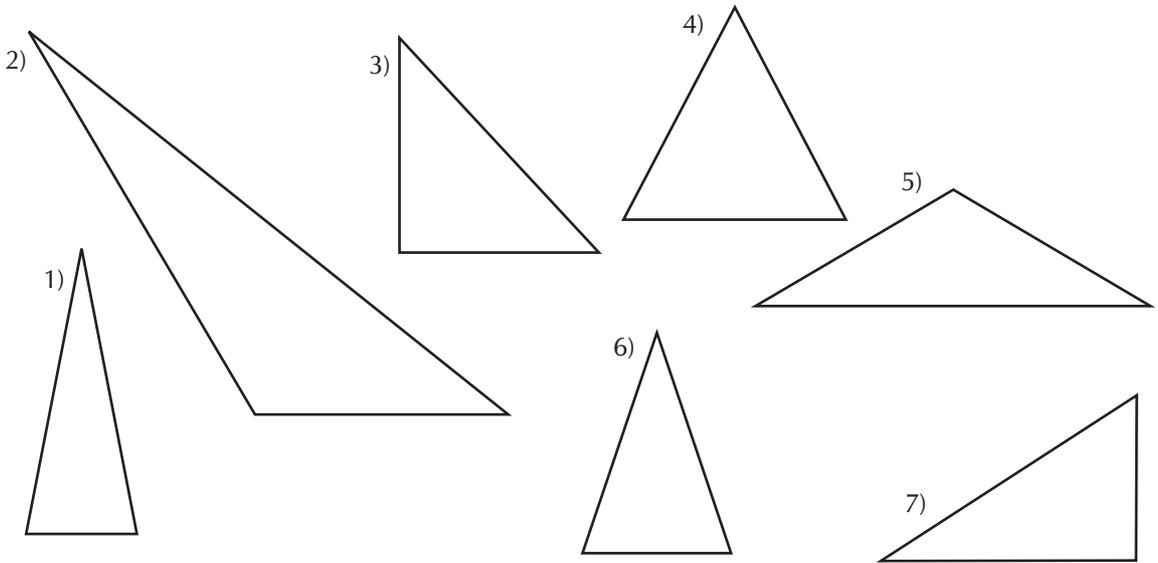
estimation



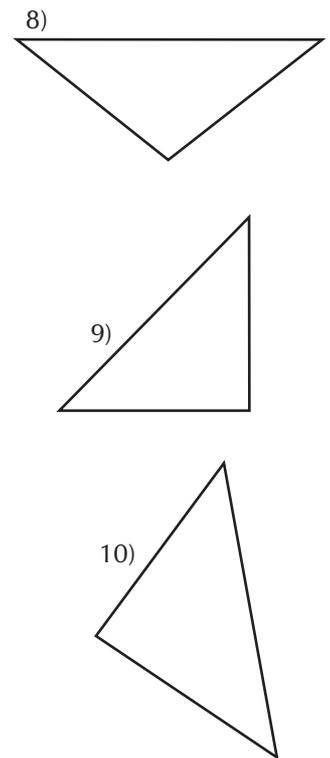
measurement



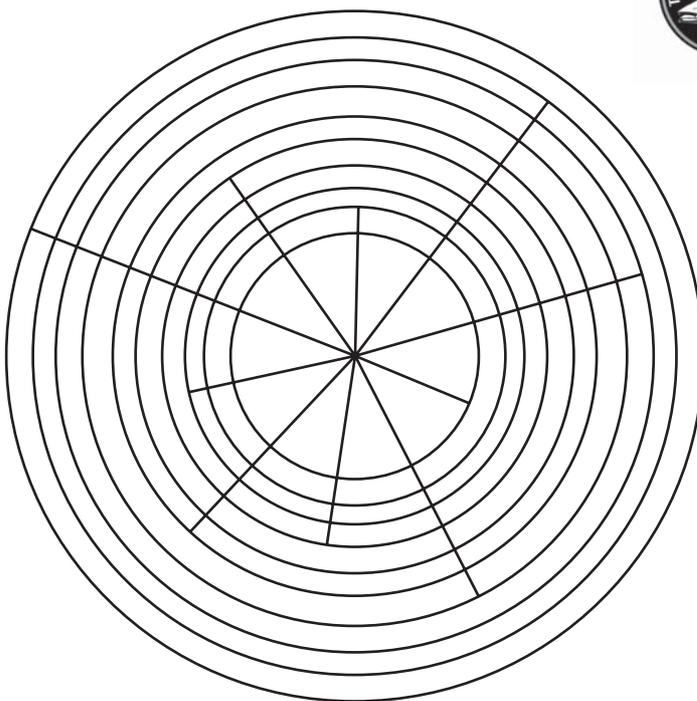
Here is a set of triangles. Can you identify what type of triangle each one is just by looking at them? In the table below, fill in your guess under the column 'Type by estimate', and then check by measuring the angles whether your guess is correct. Enter the correct type under the column 'Type by measurement'.



No.	Type by estimate	Type by measurement
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		



Here is a set of circles. Estimate, the radius of each circle by looking at the length and put the figure down in the table below under the column 'Estimated radius'. You can then use a scale to measure the lengths and compare it with your own estimate. Use the last column to put down the difference between the estimate and the actual radius.



Sr. No.	Estimated Radius (a)	Measured Radius (b)	Difference (a-b)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Cook book for a bookish cook

It's Sunday afternoon and Radha has finished cooking for the day to watch her favourite show on television. The Great Indian Cook aired at one o'clock every Sunday is something that she watches religiously. And this Sunday is special because it's the 'Dessert special' month.

Radha notes down recipes every Sunday but never finds the time to cook. Sometimes she works too hard, at others, she never has all the ingredients so she puts them on her 'To do someday' list.

But today, Radha is determined to make something. She sits in front of the TV ready with her pen and pad to note down yet another exotic recipe. And lo! There is a flash and a power cut. Radha is flopped on her sofa, disappointed but the power returns shortly before the programme is to start. She heaves a sigh of relief and suddenly the door bell rings. She gnashes her teeth and runs to

the door but there is no one. Apparently it's the neighbour's bell that always confuses her. She rushes back to her viewer spot and starts scribbling furiously on the notepad as the TV chefs make Lychee Kheer.

After she has noted down the ingredients and understood what proportion they are to be mixed in, she goes to the supermarket and picks up everything she needs to make that delicious lychee kheer. She is excited now. But she suddenly panics. She looks at the ingredient list and realises that she has no scale to measure the ingredients before mixing them.

Now, she hasn't exactly acquired the art of approximation from her mother whose estimates of proportions were often finger-licking right. So what will she do now? Can you help her with the ingredients so that she can use approximately the right amounts without having to measure/weigh them?

Lychee Kheer

Lychees (canned)	300 gms
Basmati rice	200 gms
Milk	1000 ml
Khoya (grated)	15 gms
Sugar	100 gms
Green cardamom powder	5 gms
Almonds (blanched & sliced)	30 gms
Pistachios (blanched & sliced)	40 gms



Convert the exact weight of the ingredients into approximate volumes using cups, tablespoons and teaspoons. Remember, Radha is a perfectionist and she does not like going wrong. For instance, how many cups do you think is 1000 ml of milk?



300 gms lychees = _____ cups



200 gms rice = _____ cups



1 L milk = _____ cups



15 gms khoya = _____ teaspoons



100 gms sugar = _____ teaspoons



5 gms cardamom powder = _____ teaspoons



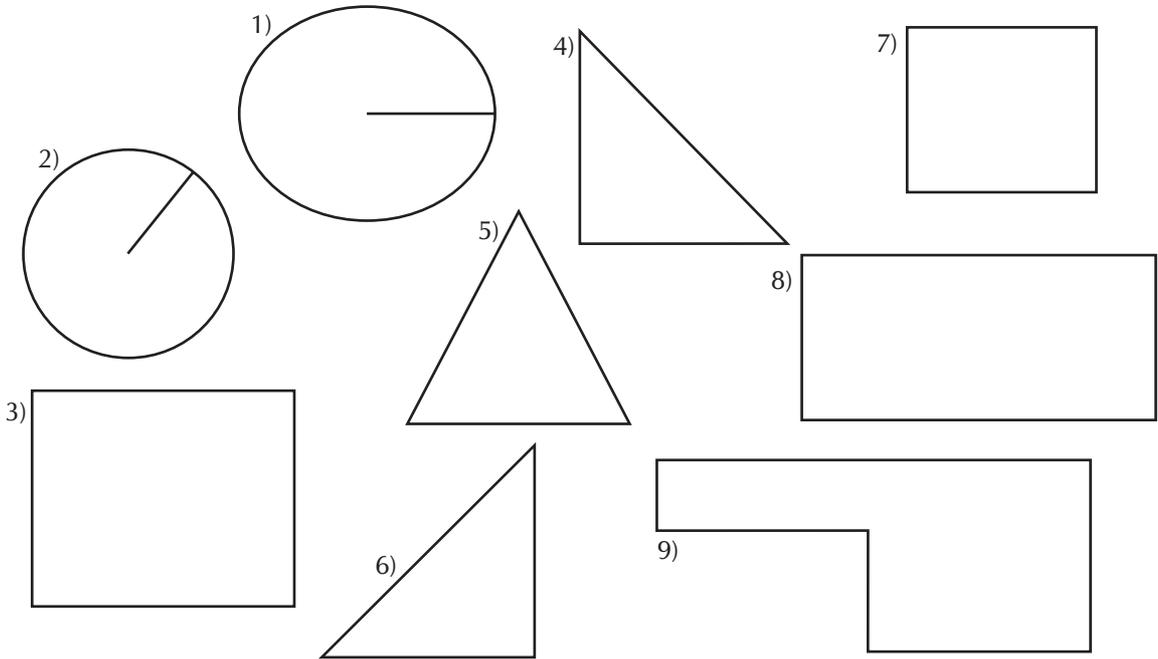
30 gms almonds = _____ teaspoons



40 gms pistachios = _____ teaspoons

Estimate the area

Look at the figures below. Try to estimate the area of each, and complete the table.



No.	Estimated area	Calculated area	Difference
1			
2			
3			
4			
5			
6			
7			
8			
9			

Number, size, mass, volume

Have some fun trying this activity. Carry the following worksheet to a vegetable vendor or a shopping centre and complete it.

Vegetables / Fruits	Mass	Number
Potato	250 gms	
Tomato		20
Green chilly	100 gms	
Apple		5
Mango	2 Kg	

You've just returned from the grocery store and have lots of goodies in your bag. But now you have to unpack them and put them into containers – bowls for the nuts and dry fruit, tins for the biscuits, a bottle for the toffees and a plastic "stay-fresh" box for the limes. Guess how many you can fit into each container and then check if your guess is correct!

Item	How many do you think will fit?	How many did you actually fit in?
Peanuts		
Toffees		
Figs or Dried Apricots		
A packet of glucose biscuits		
Limes		

Oh! It's so hot

It's summer and way too hot! But a winner is one who uses every opportunity to learn. Get hold of a room thermometer and follow the temperature as it rises and dips! Fill in your observations in the table below.

Time	Estimated temperature	Actual temperature
6 a.m.		
10 a.m.		
2 p.m.		
6 p.m.		
10 p.m.		

Arrange a delicious meal in the class. Make sure you include the items on this list. But before you start on the food guess the temperature of the different foods and then use a thermometer/ barometer to gauge the actual temperature and fill the table below.

Food/Liquid	Estimated temperature	Actual temperature
Just cooked rice		
A hot beverage		
An ice cream taken out of the freezer		
A cool drink in your fridge		