**Examples of 3rd and 4th class Trail questions:**

**Number:**

* If each bench has four legs and there are 11 benches how many legs in total?
* If someone ate ¼ of the apples in the basket how many would they eat?
* What number is on the \_\_\_\_\_\_\_\_? Is the number greater than or less than \_\_\_\_\_\_. Round this number to the nearest thousand.
* Add the number on the \_\_\_ to the number on the \_\_\_.
* What do you get if you multiply all the digits in the number by each other?
* How many seats are in this room? If the room were full of people and each person paid 50 p to enter how much money would be paid in total?
* How many sweets are in the box. If they were divided among \_\_\_\_ children how many would each child get?

**Algebra:**

* What number would you take from 400 to give you the number on the \_\_\_\_\_\_\_\_\_?

**Shape and space:**

* What shapes can you see in this area?
* Find one example of symmetry in the area.
* Face the \_\_\_\_\_\_\_\_. Make one complete turn. Where are you facing? Now make one half turn. Where are you facing?
* Why, do you think, is the \_\_\_\_\_ in the shape of a \_\_\_\_\_\_\_\_\_\_\_?
* Find lines that are parallel/vertical/horizontal.
* Face the \_\_\_\_\_\_. Turn one right angle to the right. What are you facing now?
* Find an example of a right angle in the area. Find an angle that is less/more than a right angle.
* What shape is the sign?
* How would someone in a wheelchair enter the building? Why?

**Measures:**

* How much is the \_\_\_\_\_\_? If you have \_\_\_\_\_\_\_\_\_ how much more money do you need?
* How many centimetres long is the \_\_\_\_\_\_\_\_\_\_\_?
* How many \_\_\_\_\_\_\_\_ would it take to cover the \_\_\_\_\_\_\_\_\_\_\_\_?
* How heavy is the \_\_\_\_\_\_\_\_\_\_\_\_ in grammes?
* Estimate how many \_\_\_\_\_\_\_ of water will fit in the \_\_\_\_\_\_\_\_\_\_\_. Check your answer.
* On what date was the \_\_\_\_\_\_\_\_\_ opened? How long ago is that in days, months, years?
* If the train leaves the station at \_\_\_\_\_\_ and arrives in \_\_\_\_\_\_\_\_\_ at \_\_\_\_\_\_\_\_ how long will the journey take?
* Draw an analogue clock face showing the time on the \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* How many pennies/cents does the \_\_\_\_\_\_\_ cost?
* How long is the perimeter of the \_\_\_\_\_\_\_\_ ?

**Data:**

* Stand at the school gate. How many cars, lorries, vans, tractors pass in 15 minutes. Show this on a graph. Why do more lorries than cars pass at this time?
* How likely is it that \_\_\_\_\_\_\_\_\_\_\_ will happen here today?
* Put these statements in order of likeliness to happen.

**Examples of problems as a starting point for Trails**

1. It is Sarah’s birthday on 6th June. She is a former classmate who has emigrated to Sydney, Australia. The class are giving €1 each to buy and send her a present.

* Discuss what the class will buy for her
* Cost of buying the present, wrapping paper and card
* Cost of posting
* When must you post it for it to arrive on her birthday
* Sarah will skype the class at 10am when she gets the present. Estimate what date& time the present will arrive in Sydney.

*Extension questions/ideas:*

* Give a selection of 5 countries ( to explore time zones)
* Buy the present on-line
* What countries will the plane travel over
* Send present to granny/cousin/auntie that lives abroad

2. There are 30 children in the class. Their teacher wants to bring them to the zoo. They need to reach the zoo by 11:00 and need to be back in Carlow by 5:30.

1. Should they travel by bus or train?
2. How far will they walk from the bus/train to the zoo?
3. Is each child has €25 to spend, how much money is left to spend on food?
4. What time must the children get the train/bus in order to be home on time?
5. How much time will the children spend in the zoo? (Open ended question)

3. 3rd and 4th class are going on school tour to Dublin Zoo. They want to spend 3 hours at the zoo and arrive back at 5:30pm.

What is the cheapest tour you can devise?

 Remember to include travel costs, lunch and entry to the zoo.