

Mata Rang 6: Puzail & Straitéisí Meabhracha

1ú – 5ú Meitheamh



Caibidil 14 Puzail 1

Liosta a dhéanamh

1. Éin ar ghéag crainn.

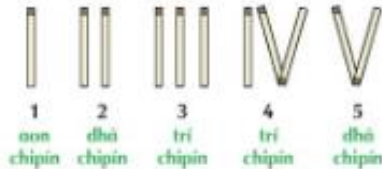
Cé mhéad slí is féidir leis na héin sui ar an ngéag le go mbeidh an t-éan **gorm** ar an taobh clé d'éan eile i gcónaí, mar atá sa phictiúr.



Nod: Déan liosta eagraithe.

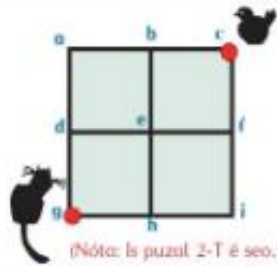
2. Cipíní Rómhánacha

Cé mhéad **uimhir Rómhánach** suas go dtí 20 is féidir a dhéanamh ag úsáid ceithre chipín ar a mhéid?



Déan stoidéar ar an bpictiúr agus lean ort.

3. Fadhb le cat agus éan



Tá cosán timpeall ar ghairdín ceamógach. Tá dhá chosán eile ann freisin, a roinneann é i gceithre chearnóg. Tá cat le feiceáil ag cúinne **g** agus éan ag cúinne **c** sa phictiúr.

Cé mhéad **cosán éagsúil** is féidir leis an gcat dul chun breith ar an éan gan siúl ar an bhfear?

Is gá an fad céanna a bheith i ngach cosán a théann an cat.

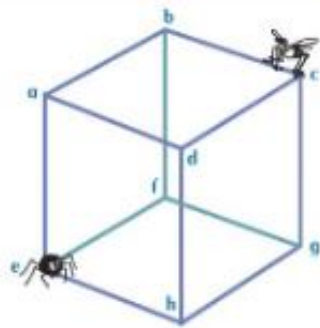
(Nóta: Is puzail 2-T é seo.)

4. Fadhb le damhán alla agus cuileog

Cé mhéad **cosán éagsúil** is féidir leis an damhán alla dul chun breith ar an gcuileog?

Is gá gach **fad** a théann an damhán alla a bheith ar an bhfad is giorra ar an gciumhais, idir an damhán alla agus an cuileog.

Tarraing agus lipéadaigh pictiúr de cheotlach ciúb chun cabhrú leat é a oibriú amach. (Is puzail 3-T é seo.)



Ceist 1:

How many different ways can the birds sit on the branch so that the blue bird will always be on the left hand side of the other birds, as in the picture?

Tip: Create an organised list.

Ceist 2:

How many different Roman Numerals (1-20) can you make, using only 4 or less match or lollipop sticks? Look at the picture and keep going. Here are the Roman Numerals. :

Roman Numerals			
1 = I	10 = X	100 = C	1000 = M
2 = II	20 = XX	200 = CC	2000 = MM
3 = III	30 = XXX	300 = CCC	3000 = MMM
4 = IV	40 = XL	400 = CD	
5 = V	50 = L	500 = D	
6 = VI	60 = LX	600 = DC	
7 = VII	70 = LXX	700 = DCC	
8 = VIII	80 = LXXX	800 = DCCC	
9 = IX	90 = XC	900 = CM	



Ceist 3:

Here is a square garden. A path goes around the perimeter of the garden. There are also 2 other paths which divide the garden into four squares. There is a cat at the corner g. A bird is at corner c.

- How many different paths can the cat take to catch the bird, without walking on the grass? Each path must be the same length.

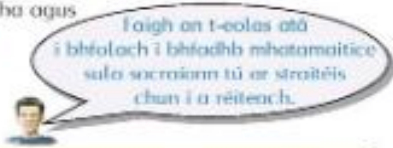
Ceist 4:

- How many different paths can the spider take to catch the fly? Each path should be the shortest one possible.

Puzail 1 (Faigh an t-eolas atá i bhfolach.)

1. Cén t-eolas fóna atá i bhfolach sna ráitis seo a leanas?

- (a) Bhí 30 000 duine ag cluiche peile. Daoine fásta ba ea 24 800 dóibh.
- (b) Is druideanna iad beagnach $\frac{2}{3}$ de na héin a thagann isteach i ngairdíní daoine.
- (c) Buachaillí is ea 45% de na páistí i scoil.
- (d) Tá súile gorma ag 2 as gach 5 dhuine ar an meán.
- (e) D'imir foireann Nóra 10 gcluiche. Bhuaigh siad 5 agus chaill siad 2.
- (f) Tá an tSráid Ard ingearach leis an tSráid Nua agus leis an tSeansráid.
- (g) D'íoc siopadóir €80 ar chathaoir agus dhíol sé í ar €130.
- (h) Cairde is ea Lís agus Laoise. Rugadh iad i míonna difriúla sa bhliain chéanna. Rugadh Lís i Mí na Samhna agus is í an duine is sine den bheirt.
- (i) Roinneadh €30 go cothrom ar bheirt mháthreocha agus ar bheirt iníonacha agus fuair gach duine €10.
- (j) Bhí deartháir óg ag tiománaí leoraí. Ba dhochtúir é an deartháir óg. Ní raibh deartháir ag an dochtúir.



Faigh an t-eolas atá i bhfolach i bhfadhb mhatamaitice sa leagan tú ar straitéis chun í a réiteach.

2. Umar éisc

Faigh an t-eolas atá i bhfolach sa phuzail seo a leanas agus oibrigh amach an freagra.

Cé mhéad iasc dearg ba cheart a thógáil amach as an umar ionas gur iasc dearg iad aon cheathrú den iasc a bheidh fágtha?



Puzail 1: Find the hidden information

- (a) There were 30000 people at a football game. 24 800 were adults.
- (b) $\frac{3}{4}$ of the birds that come into the garden are starlings.
- (c) 45% of the pupils of the school are boys.
- (d) On average, 2 out of every 5 people have blue eyes.
- (e) Nóra's team played 10 games. They won 5 and lost 2.
- (f) The High Street is perpendicular to New Street and Old Street.
- (g) A shopkeeper bought a chair for €80 and sold it for €130.
- (h) Lís and Laoise are friends. They were born in the same year but in different months. Lís was born in November and she is the oldest of the two.

➤ Find the information that is hidden (i.e. that we can figure out or assume from the information that is given) before you solve the problem.

Ceist 2:

How many red fish should be taken out of the tank so that the red fish will be $\frac{1}{4}$ of the fish left?

Táblaí na Seachtaine: 5, 10

