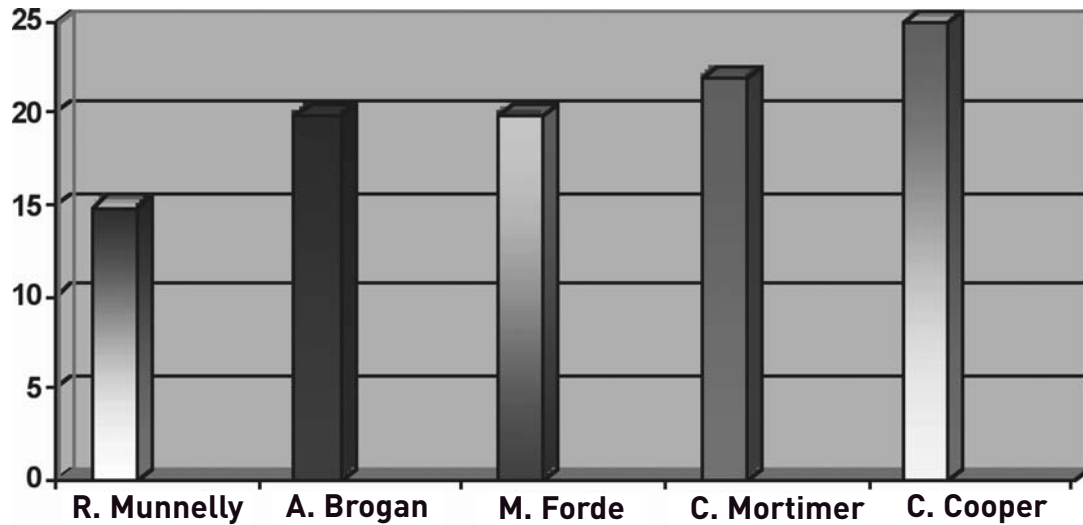## Worksheet 3A:

Examine the vertical graph below

1. **The above graph shows the number of points, scored by some of the country's top forwards in the championship.**

   A.   Which player scored the most points?

   B.   How many points were scored altogether?

   C.   Who scored the least amount of points?

   D.   Colm Cooper scored how many more points than Ross Munnelly?

   E.   Which player would you choose for your county team?

   F.   Which two players scored the same number of points?

2. **Draw a vertical graph to illustrate the following players' scores:**

Stephen O'Neill	16 points
Kieran Donaghy	22 points
Pádraig Joyce	12 points
Dessie Dolan	14 points
Graham Geraghty	17 points

   > **Did you know?** The record for the highest amount of appearances in All-Ireland finals is shared by three Kerry men. Ogie Moran, Pat Spillane, and Paudie Ó Sé each appeared in 10 finals, winning eight times. How many All-Ireland medals did they win between them?

WORKSHEET **3A**

Worksheet 3B: Place Value

1 (a) Attendances

GAA Match	Attendance	Round to the nearest 10	Round to the nearest 100	Round to the nearest 1,000
Dublin v Limerick	5,401			
Mayo v Sligo	9,107			
Wexford v Tipperary	7,854			
Cork v Donegal	1,239			
Armagh v Roscommon	3,415			

(b) Using the above attendances, order the attendances from the least attended to the most attended match.

_____ ; _____; _____; _____; _____; _____.

2. Write each of these attendances in digits:
(a) Four thousand, seven hundred and fifty four.
(b) One thousand, eight hundred and one.
(c) Seven thousand, two hundred and seventy three.
(d) Six thousand and five.
(e) Four thousand, three hundred and forty one.

3 (a) The following are the amount of votes polled by GAA's top stars in a recent survey in the Cúl4kidz magazine.

Players	Votes
Jason Sherlock	6,297
Ciarán MacDonald	1,506
Owen Mulligan	2,307
Kieran Donaghy	7,541

(b) List the players in order of the number votes they received.

_____; _____; _____; _____.

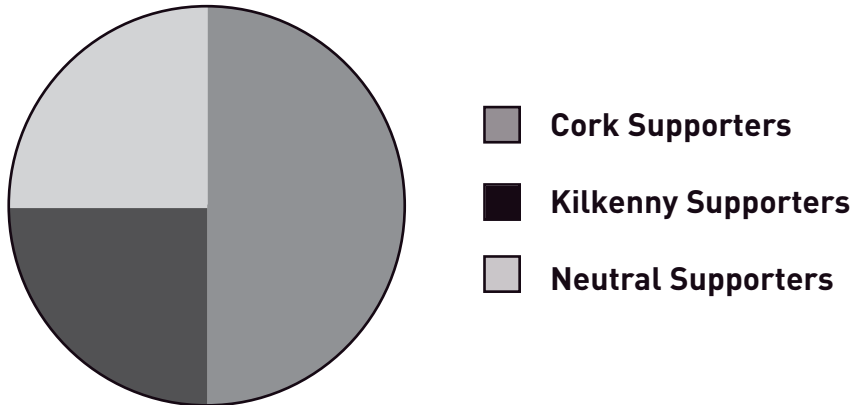**(c) Write a number that is between the amount of votes received by Kieran Donaghy and Jason Sherlock.**

(d) Add the number of votes received by Jason Sherlock to the number received by Owen Mulligan.

> ***Did you know?*** *The highest individual score by a single player in an All-Ireland football final was achieved by Jimmy Keaveney of Dublin. Keaveney score two goals and six points against Armagh in the 1977 decider. Can you work out how many points he scored altogether? Remember that one goal is equal in value to three points.*
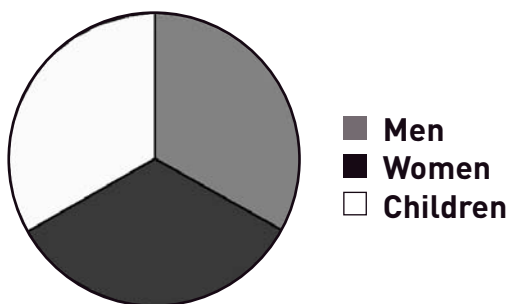
WORKSHEET **3B**

Worksheet 3C: Pie charts

1. Examine the pie chart below.

☐ **Cork Supporters**

☐ **Kilkenny Supporters**

☐ **Neutral Supporters**

This pie chart illustrates the one thousand supporters who watched the All-Ireland hurling final from the Nally Stand.
   (a) How many of the supporters were from Cork?
   (b) How many of the supporters were from Kilkenny?
   (c) How many of the supporters were neutral?

2. At a recent All-Stars award ceremony, Mayo received five All-Stars, Kerry received five All-Stars and all the other counties between them received five All-Stars. Draw a pie chart to illustrate this.

3. Below is a chart that illustrates the make up of the crowd at a recent Cumann na mBunscol hurling final.

☐ **Men**
☐ **Women**
☐ **Children**

   (a) Is this pie chart divided in equal fractions?
   (b) What fraction of the pie chart does each section represent?
   (c) The pie chart illustrates six thousand spectators who attended the final. How many people does each section represent?

Did you know? *The highest recorded attendance at a GAA match was 90,556. The match took place in 1961 between Down and Offaly. Can you find out the capacity of Croke Park today?*

WORKSHEET 3C

Worksheet 3D: Fractions

One Whole									
1/2									
1/3									
1/4									
1/5									
1/8									
1/10									

1. Examine the fraction wall above and complete it by filling in the empty boxes.

2. Use your fully completed fraction wall in order to answer these questions:

   (a) If Henry Shefflin scored 4/10 of Kilkenny's points in a recent match, did he score more or less than half?

   (b) In a recent National League match, Dublin received 3/4 of the yellow cards which were issued by the referee. Did they receive more or less than half?

   (c) In a recent senior hurling championship match John Mullane scored six of Waterford's eight points, while Rory Jacob scored seven of Wexford's 10 points. Who scored the greater fraction of their team's points? Which team won the match?

3. The All-Star football team has 15 players. The following counties have a number of All-Star players on the team.

   • Dublin: 3
   • Kerry: 6
   • Mayo: 4
   • Armagh: 1
   • Cork: 1

What fraction of the All Star team is made up of each county?

   (a) Kerry
   (b) Dublin
   (c) Armagh
   (d) Cork
   (e) Mayo

4. The hurling All-Stars were divided amongst the following counties:

   • Cork: 3
   • Galway: 2
   • Waterford: 2
   • Wexford: 2
   • Kilkenny: 5
   • Tipperary: 1

What fraction of the All-Star team is made up by each county?

   (a) Kilkenny
   (b) Cork
   (c) Galway
   (d) Waterford
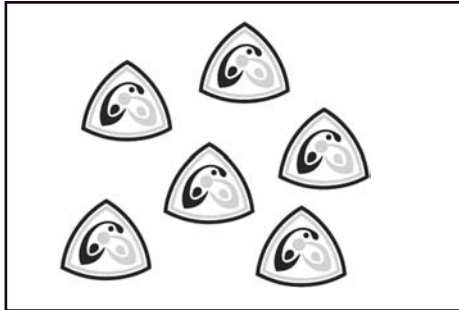   (e) Tipperary
   (f) Wexford

List the counties in descending order, starting with the county that received the largest fraction of players on the All-Star team.

> ***Did you know?*** *Cork legend Christy Ring played in no fewer than 10 All-Ireland senior hurling finals with Cork. Can you estimate how many minutes he played, in total, in All-Ireland finals.*

Worksheet 3E: Estimation

1. Look at the box below.

Take a wild guess:
(a) How many symbols are in the box?

Now make an estimate:
(b) How many symbols are in the box?

Now count them:
c) How many symbols are in the box?

> **Were your three answers similar?**
> **Is an estimate more or less accurate than a wild guess?**

2. Try answering the following questions:

(a) Seán and Tomás are spectators at a match in Croke Park. With three minutes remaining Fermanagh are leading Limerick by a goal and one point. Seán asks Tomás who he thinks will win and Tomás replies Fermanagh as they are leading at that moment. Is this a wild guess or an estimate?

(b) Áine asked Marc who he thought would win the All-Ireland senior football championship this year. Marc replied that he preferred hurling and knew little about the teams but chose Derry as it was his father's home town. Was this a guess or an estimate?

(c) Declan bought a ticket for a draw in his local GAA club. He chose the number 795 as this was the month and year of his birth. Was this a wild guess or an estimate?

(d) Niamh missed training on Thursday night but she knew there was a match on Sunday. She was not sure what time throw-in was to take place, but she knew that for home matches they usually met at the clubhouse at 12:30pm and that they had played away the previous week, and so she arrived at this time. Was this a wild guess or an estimate?

3. The GAA Museum displays items from the rich history of the association.

(a) On Monday there were 112 visitors to the museum, on Tuesday there were 88 and on Wednesday there were 109. Estimate how many people you think will visit on Thursday: 4, 44, 114 or 680?

(b) On Saturday the museum had 872 visitors. Why do you estimate such a big difference in the number of visitors?

(c) How many people do you think will visit the museum on Sunday: 7, 68, 100, 781?

WORKSHEET **3E**

Worksheet 3F: Multiplication And Division

A. Answer the following questions:

1. How many legs have 15 footballers?

2. How many toes have seven hurlers?

3. How many goalposts have 11 pitches?

4. How many whistles have 12 referees?

5. If there are 23 pages in the referee's notebook, how many pages are there in nine referees' notebooks?

6. How many pairs of laces are there on a football pitch during a senior championship match?

B. Answer the following questions by calculating the sums and unlocking the answers.

1. What team plays its matches at Gaelic Park?

720	378	462		860	1,360	2,700	336

W	66 x 7	**O**	34 x 40	**Y**	43 x 20
R	54 x 50	**N**	90 x 8		
K	112 x 3	**E**	42 x 9		

2. Name the Kerry legend that led a Leinster county to its first ever provincial success?

432	201	966	2,077	1,114	1,015	2,205	1,020

Á	67 x 3	**I**	42 x 23	**Ó**	35 x 29	**É**	68 x 15
S	45 x 49	**P**	36 x 12	**D**	67 x 31	**Í**	44 x 26

WORKSHEET **3F**

Puzzle time

What do the letters in each sentence stand for?

(a) 15 P on a football team.

(b) 32 C in Ireland.

(c) 3 points in a G.

(d) 4 P in Ireland.

Match the sentence to the mathematical sentence and calculate the answer.

A section of the Hogan Stand has 12 rows of seats and 16 seats in each row. How many seats are in the section?	24 (divided by) 3
If 24 points are shared equally by the full-forward line, how many points did each player score? (Three players play in the full-forward line).	12 x 3
If an inter-county player must run 12 laps of the pitch a night and he trains three nights a week. How many laps does he run in total each week?	12 x 16 32 x 30
If each county in the country has a panel of 30 players, how many inter-county players are there in total?	12 x 16

Did you know? Hurling was banned in Galway in 1527. Gaelic football and archery were allowed. Can you work out how many years it is since Galway banned hurling?

WORKSHEET **3F**

Worksheet 3G: Time

The GAA celebrated the turning on of the floodlights in Croke Park in some style. Below there is a timetable of the events that took place on that historic evening.

5:00 pm	Music in stadium
5:40 pm	Dublin Gospel Choir
6:10 pm	Switching on the floodlights
6:20 pm	Teams begin warm-up
6:21 pm	The Saw Doctors (live traditional music)
6:40 pm	Dublin take to the park
6:42 pm	Tyrone take to the park
6:50 pm	Parade
6:57 pm	Amhrán na bhFiann
7:00 pm	The match begins
7:35 pm	Half time – Cumann na mBunscol international exhibition
7:50 pm	Second half begins
8:25 pm	Game ends

1. Examine the timetable above and answer the following questions.

   (a) How long did the parade take to complete?
   (b) How long did the first half last?
   (c) Was the Cumann na mBunscol match at half time, longer or shorter than the first half of the match? Calculate the difference in minutes.
   (d) How long were the Dublin players on the pitch before the Tyrone players arrived?
   (e) How long in total did the evening last?
   (f) Seán arrived in time for the parade and left at the end of the match. How long was he in the stadium?
   (g) How long did the Saw Doctor's performance last?

2. A referee's watch shows the time at 3:05pm. The watch is 15 minutes fast. What is the actual time? Is he late for a match that starts at 3:00?

3. Tomás started training with his local GAA club at 7:40pm. He finished at 8:20pm. How long was he training in total?

4. If an inter-county match starts at 2:00pm and each half lasts 35 minutes, with a 10-minute break for the players at half time, what time will the match end?
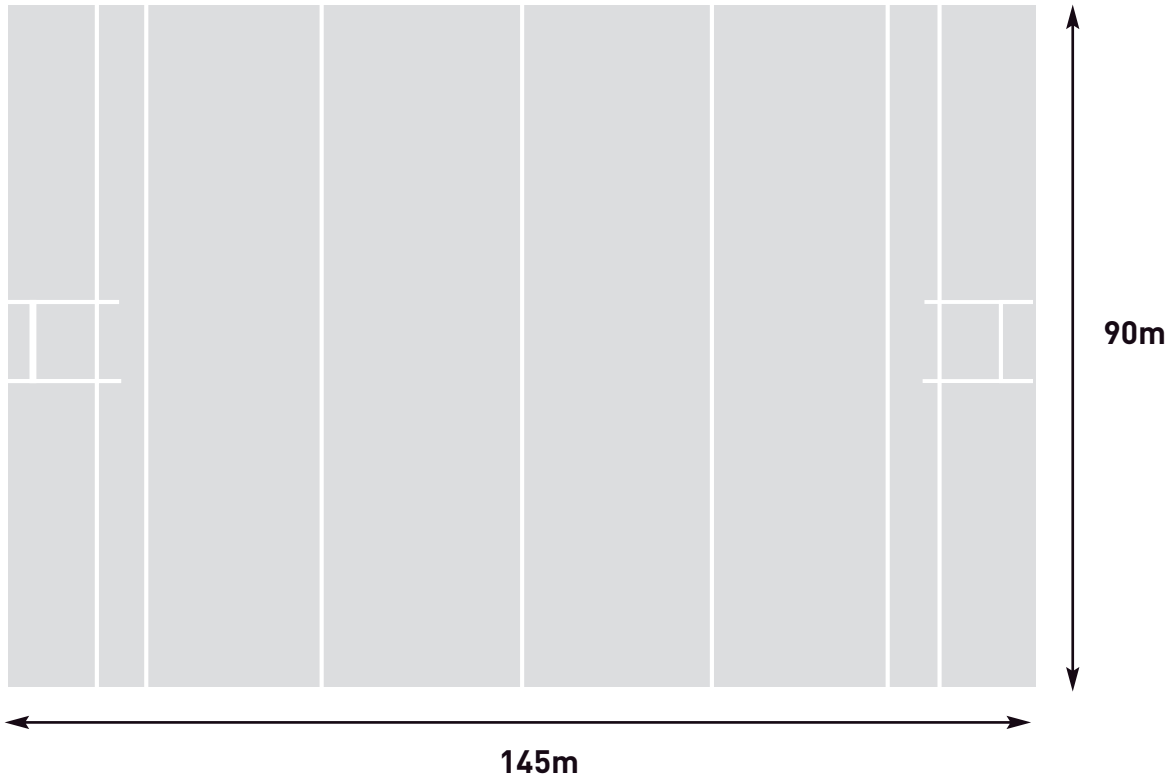
5. If it takes 20 minutes to make a single hurley, how long would it take to make hurleys for an entire team of 15 players? How long would it take to make a hurley for everybody in your class?

> *Did you know?* *Nicky English of Tipperary achieved the highest ever individual score in an All-Ireland senior hurling final. English managed to score two goals and twelve points. Can you work out how many points he scored altogether? Remember one goal is equal to three points.*

WORKSHEET **3G**

Worksheet 3H: Length

Have a look at the GAA pitch below.

90m

145m

(1) What shape is the pitch? _____

(2) Can you calculate the perimeter of the pitch? _____

(3) Looking at the pitch above, can you estimate how many metres there are between the upright goalposts?

_____

(4) Using your ruler measure the distance in centimetres between the half-way line and the end line.
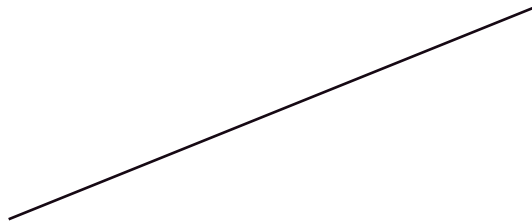
_____

(5) Would you measure the height of the goalposts in kilometres (km), metres (m) or centimetres (cm):

    (a)   On an actual pitch?

    (b)   On the scaled-down version above?

WORKSHEET   **3H**

(6) Using your ruler, measure how far the player has kicked the ball
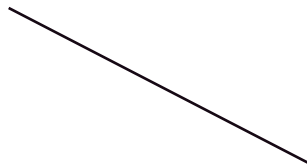
(a)

_____

(b)

(c)

Did you know? *Hurling is the world's fastest field game and that it was originally used as a method for training ancient Irish warriors.*

WORKSHEET **3H**