JCOL Basic Skills – Pack 3

Topics

Graphs of Story – Can I interpret the graph of a story?

1 ▶ 2015 JCOL Paper 1 – Question 8 (a) ☐

Probability – Can I apply the Fundamental Principal of Counting?

2 ▶ 2019 JCOL Paper 2 – Question 8 (b) ☐

Number and Arithmetic – Can I divide a given amount into a given ratio?

3 ▶ 2011 JCOL Paper 1 – Question 2 (a) ☐

Trigonometry – Can I use Pythagoras to find the length of the hypotenuse?

4 ▶ 2014 JCOL Paper 2 – Question 13 (ii) ☐

Statistics – Can I find the mean of a set of data?

5 ▶ 2017 JCOL Paper 2 – Question 5 (b) (i) ☐

www.mathspoints.ie for **worked solutions** to these questions.

JCOL Resources by Topic

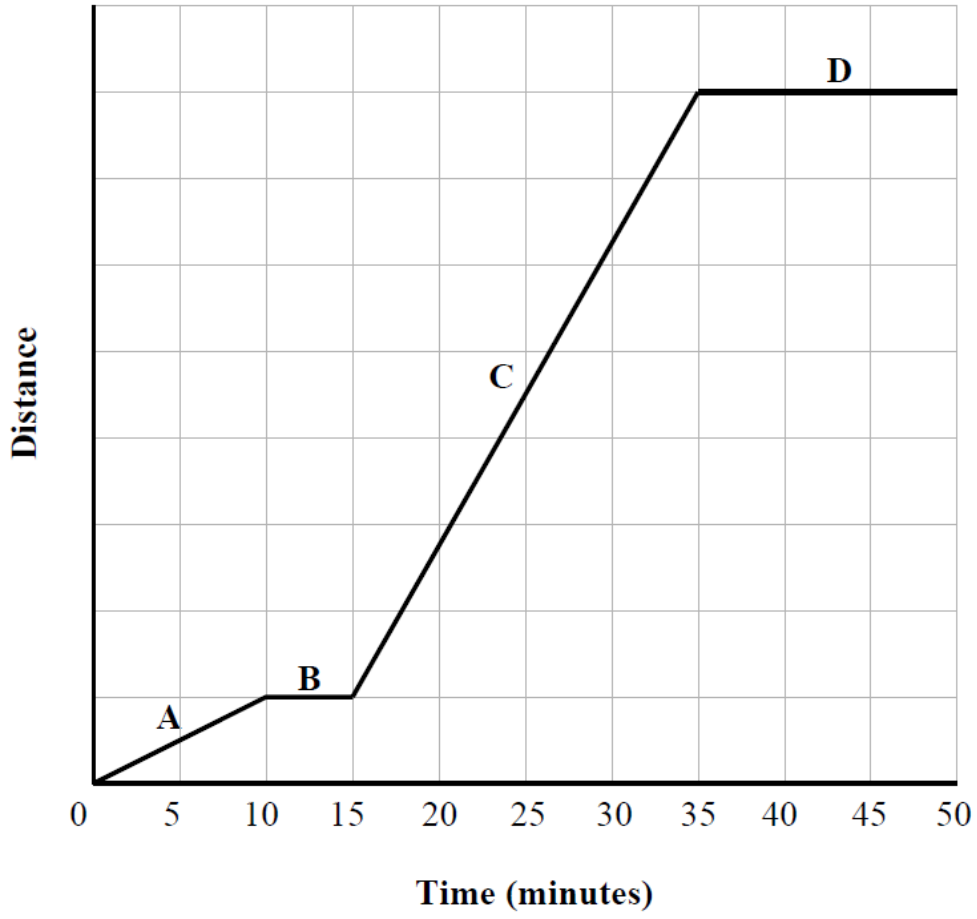
JCOL Revision – 50 Common Questions

1 ▶ 2015 JCOL Paper 1 – Question 8 (a)

Gráinne is taking part in a training session.

The graph shows the distance she travelled during the session.

The four parts of the graph are labelled **A**, **B**, **C**, and **D**.



Write the letters **A**, **B**, **C**, and **D** into the table to match each description with the correct part of the graph.

Description	Part of the Graph
Gráinne runs for 20 minutes	
Gráinne stops for 15 minutes	
Gráinne walks for 10 minutes	
Gráinne stops for 5 minutes	

2 ▶ 2019 JCOL Paper 2 – Question 8 (b)

A shop sells chicken wraps.

There are four different sauces and three different types of chicken, as shown in the table.

Sauce	Chicken
BBQ Sauce	Plain
Mayonnaise	Fried
Hot Sauce	Tikka
Sweet Chilli	

Margaret picks one sauce and one type of chicken.

(i) Fill in the spaces below to show **three** different combinations that Margaret could pick.

One is already done.

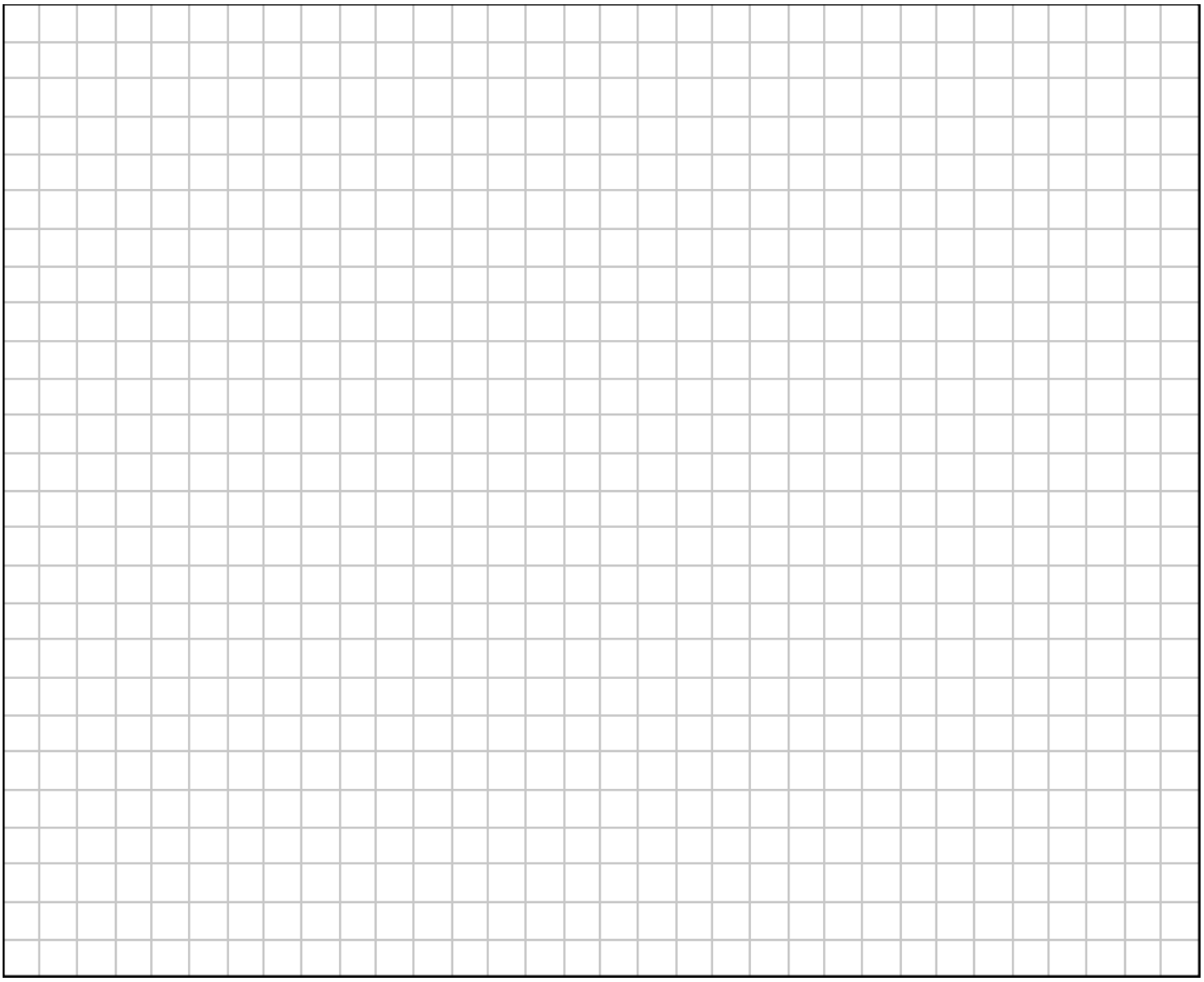
Combination 1:	Hot Sauce	and	Plain Chicken
Combination 2:		and	
Combination 3:		and	

(ii) Work out the **total** number of different possible combinations that Margaret could pick.

3 ▶ 2011 JCOL Paper 1 – Question 2 (a)

€52 is divided between Fiona and Orla in the ratio 9 : 4.

How much does each receive?



4 ▶ 2014 JCOL Paper 2 – Question 13 (ii)

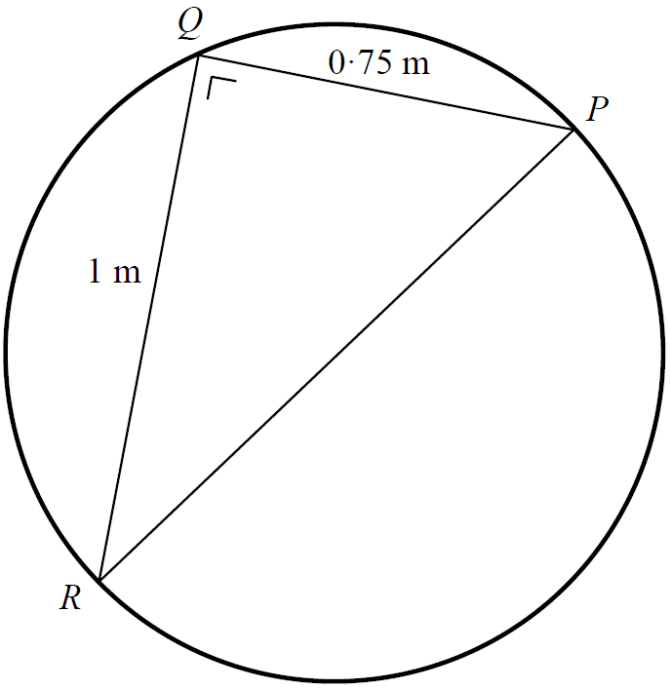
A circular table is shown in the diagram below. Aoife is trying to find the centre of the table.

She constructs the right-angled triangle PQR as shown, with $|QR| = 1$ m and $|\angle RQP| = 90°$.

She measures $[QP]$, and finds that $|QP| = 0.75$ m.

Use the Theorem of Pythagoras to calculate the length $|PR|$.

Give your answer in centimetres.



5 ▶ 2017 JCOL Paper 2 – Question 5 (b) (i)

There are 15 boxers in a boxing club. The weight of each boxer (in kg) is shown in the table below.

47	49	49	50	56
57	58	65	67	68
69	69	69	75	79

Work out the **mean weight** of the 15 boxers.