

UNIT 3 *Graphs*

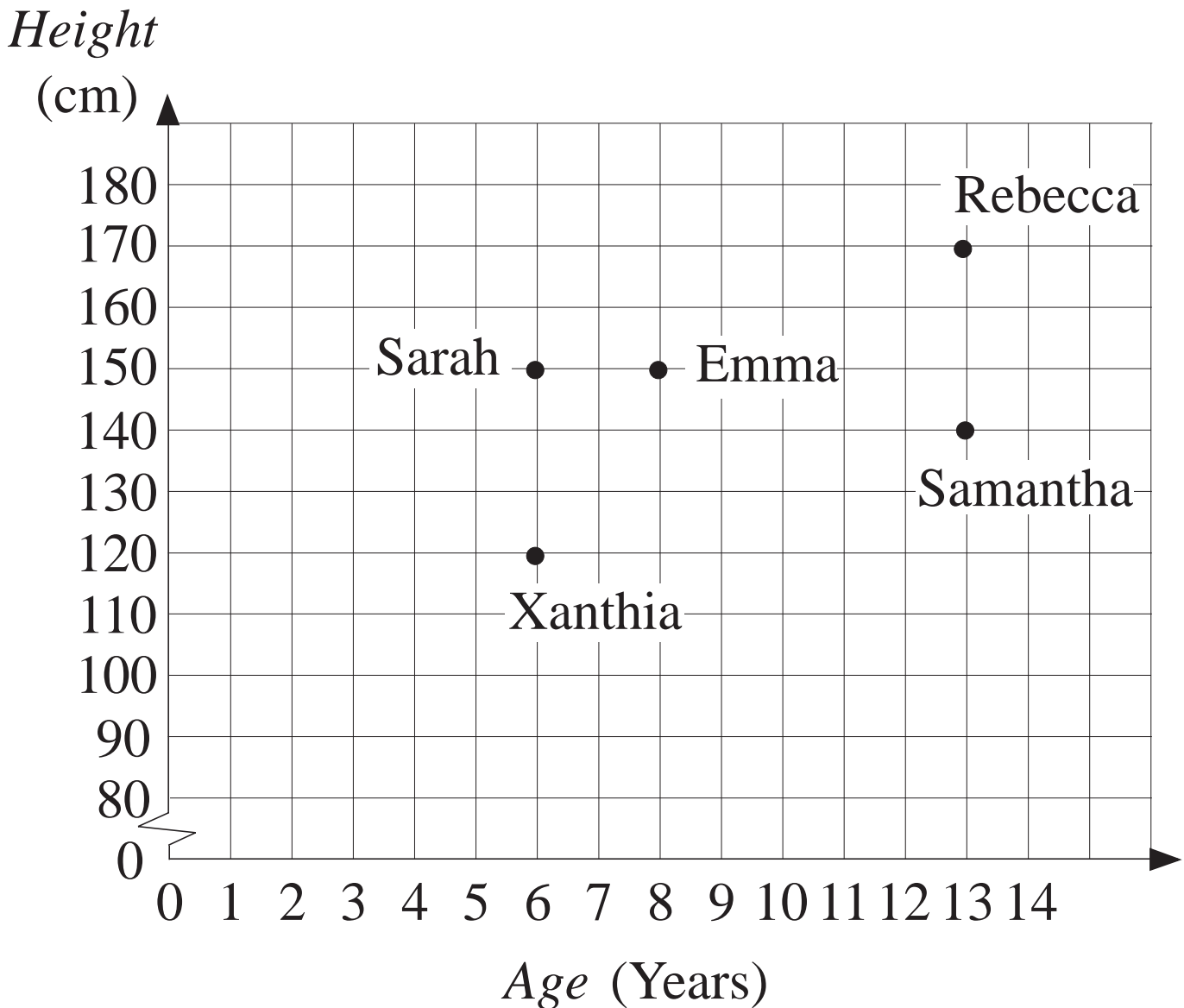
Overhead Slides

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OS 3.1

Scatter Graphs 1



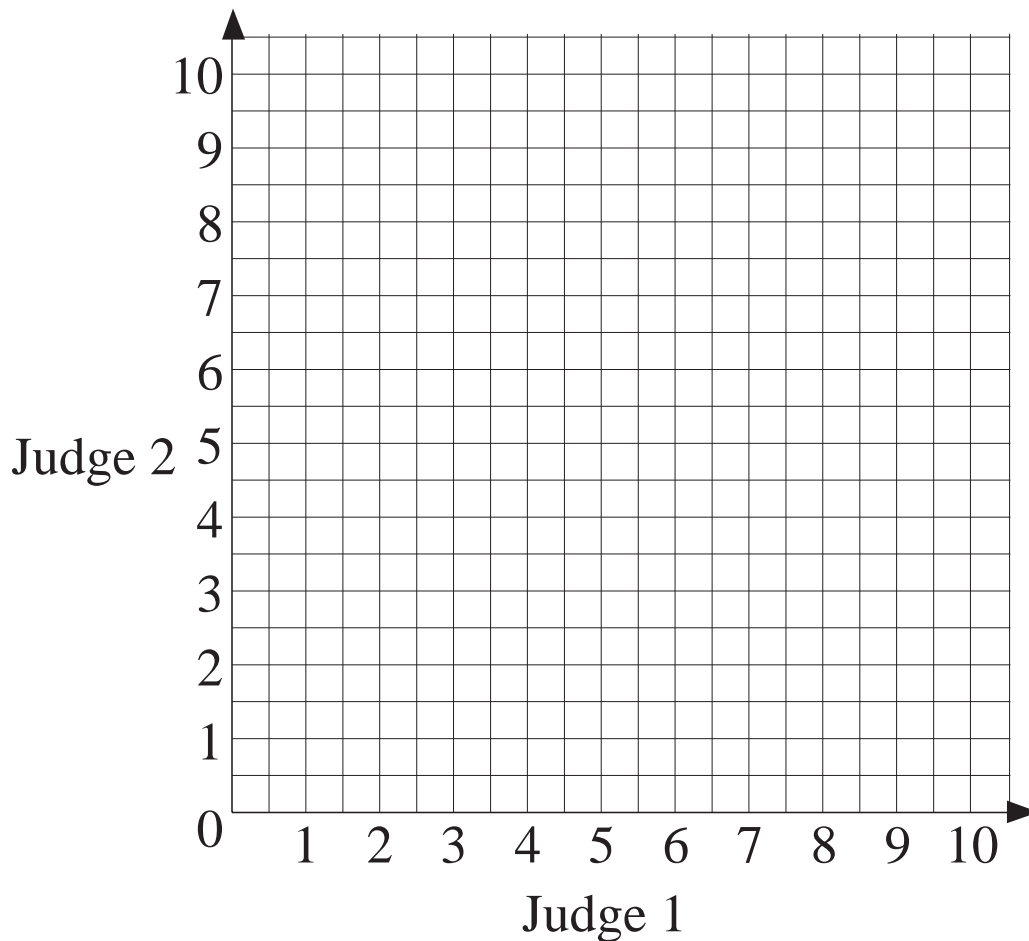
- Who is the tallest and how tall is she?
- Who is the youngest and how old is she?
- How much taller is Rebecca than Emma?
- How much younger is Sarah than Samantha?
- Is it true that older people are taller?

OS 3.2

Scatter Graphs 2

Plot the data as points on the graph below.

<i>Competitor</i>	<i>Judge 1</i>	<i>Judge 2</i>
Jane	4	5
Nishi	6	3
Julie	8	9
Andrea	2	1
Veronica	5	4
Chiori	3	2

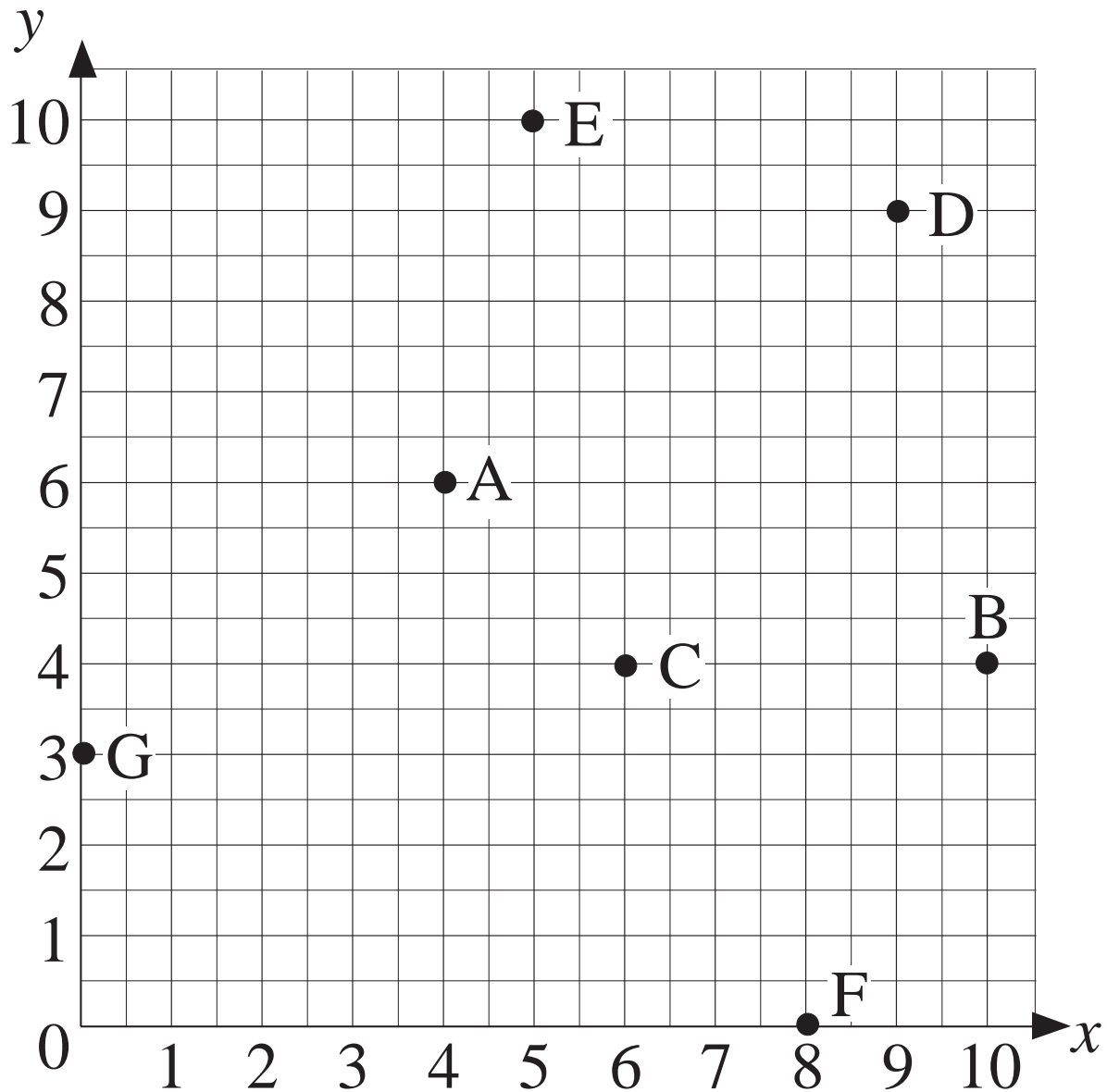


The two scores are added together to give a total and the winner.

1. Who has the highest total?
2. Who came second?

OS 3.3

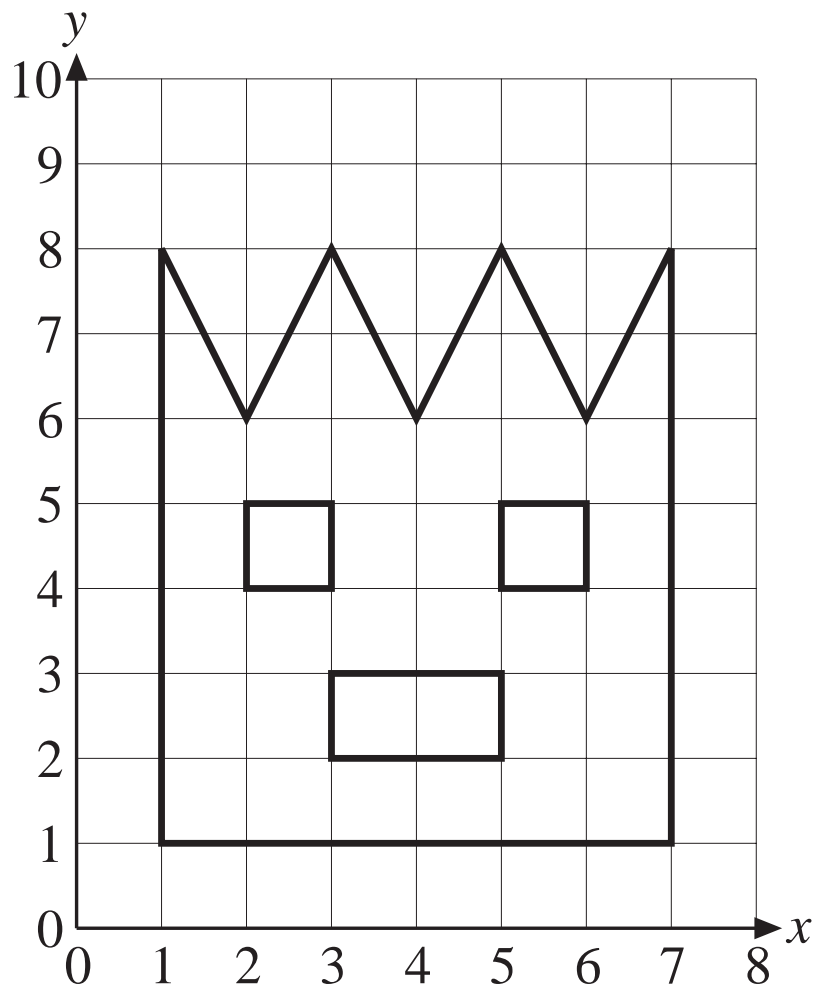
Positive Coordinate Grid



1. What are the coordinates of the points marked?
2. Plot the points with coordinates
H (10, 10), I (4, 0), J (3, 10), K (0, 9), L (5, 5).

OS 3.4

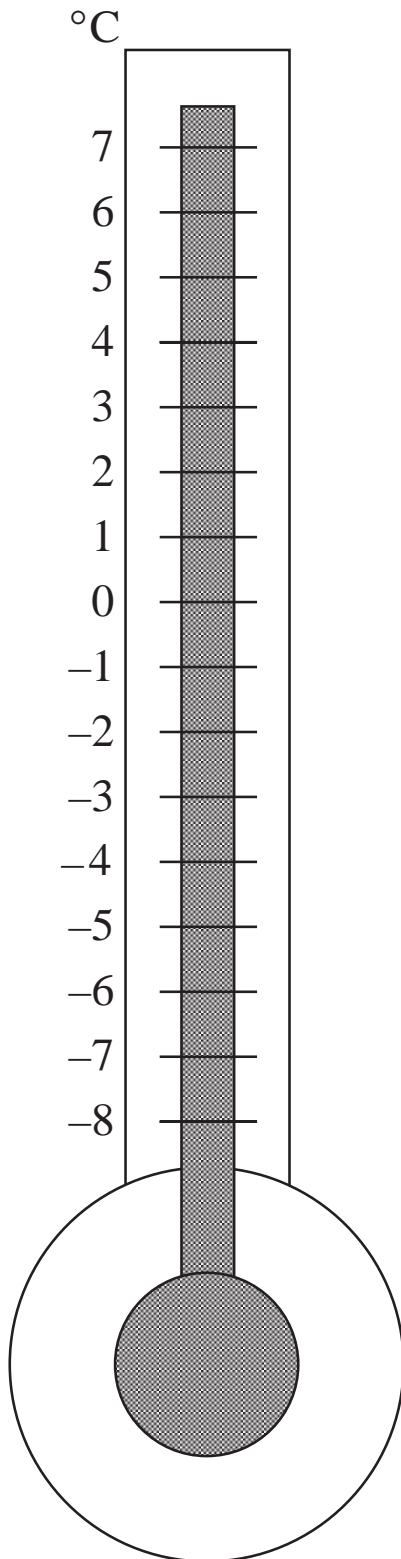
Plotting Points



Tell somebody (who cannot see it) how to draw this picture.

OS 3.5

Temperatures

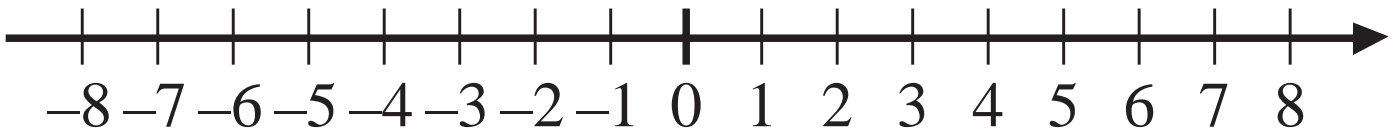


What temperature is:

- (a) 3 °C colder than 7 °C
- (b) 8 °C colder than 3 °C
- (c) 3 °C warmer than 2 °C
- (d) 8 °C warmer than -5 °C
- (e) 5 °C warmer than -6 °C
- (f) 10 °C colder than 6 °C
- (g) 5 °C warmer than -7 °C
- (h) 5 °C colder than -1 °C
- (i) 5 °C warmer than -3 °C
- (j) 3 °C colder than -4 °C

OS 3.6

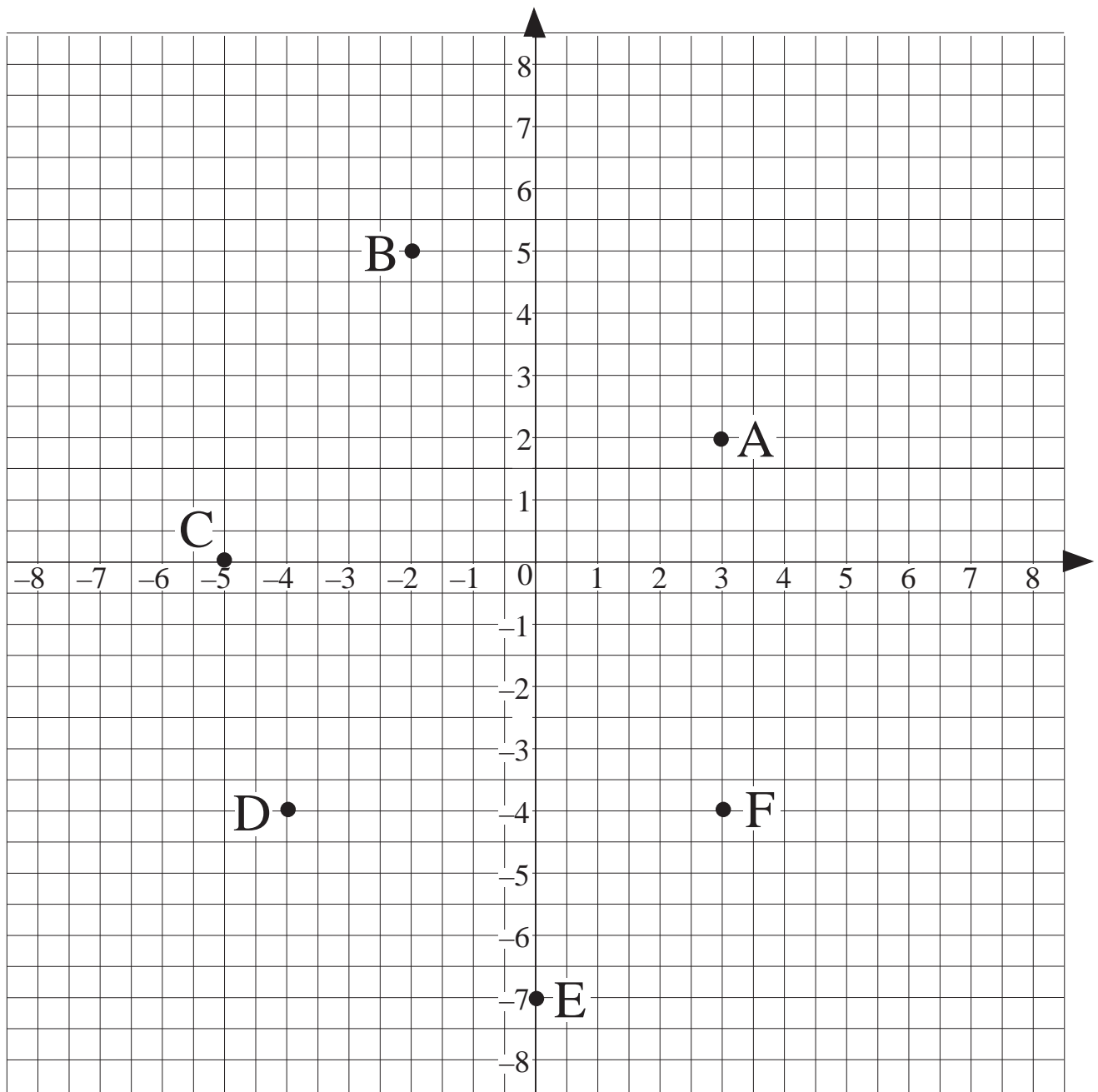
Negative Numbers



1. What number is less than 2?
2. What number is 3 less than -1 ?
3. What number is 2 more than -5 ?
4. What number is 3 less than -2 ?
5. What number is 10 less than 2?
6. Make each statement true by using the symbol $<$ or $>$;
 - (a) -1 -5
 - (b) 5 -5
 - (c) -4 -8
 - (d) 1 2

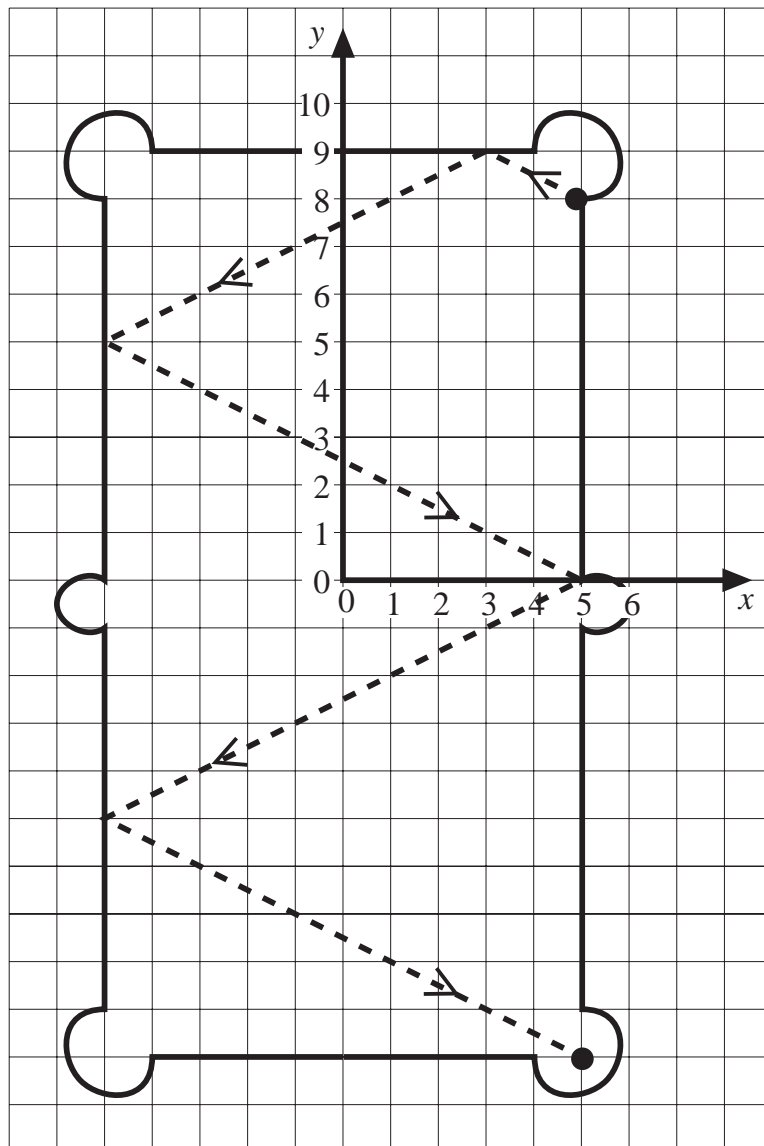
OS 3.7

Coordinate Grid



1. What are the coordinates of the points marked A to F?
2. Plot the points with coordinates
G (0, 5), H (-4, 7), I (-3, -6), J (0, -5)
K (6, -6), L (-1, 1)

OS 3.8

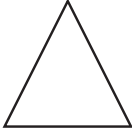
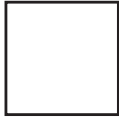
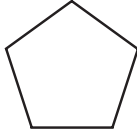
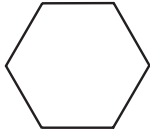
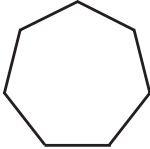
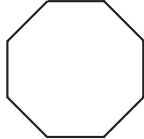
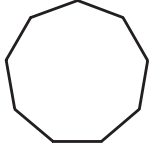
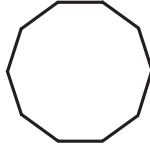
Path of a Snooker Ball

What are the coordinates of:

- the point where the snooker ball starts to move,
- the point where it rebounds from the side of the table for the first time,
- the points where it rebounds from the side of the table for the second, third and fourth times,
- the point where it falls into the pocket.

OS 3.9

Regular Polygons

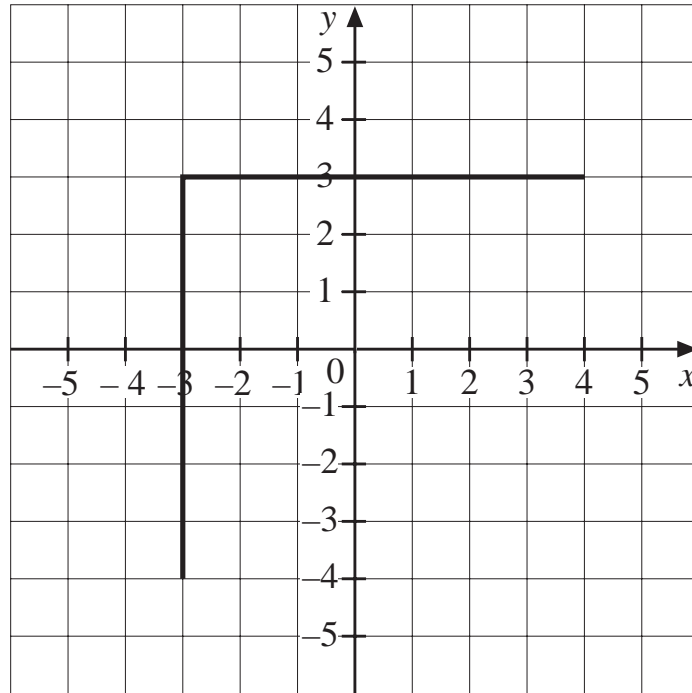
<i>No. of sides</i>	<i>Name</i>	<i>Regular shape</i>
3	Triangle	
4	Square	
5	Pentagon	
6	Hexagon	
7	Heptagon	
8	Octagon	
9	Nonagon	
10	Decagon	

OS 3.10

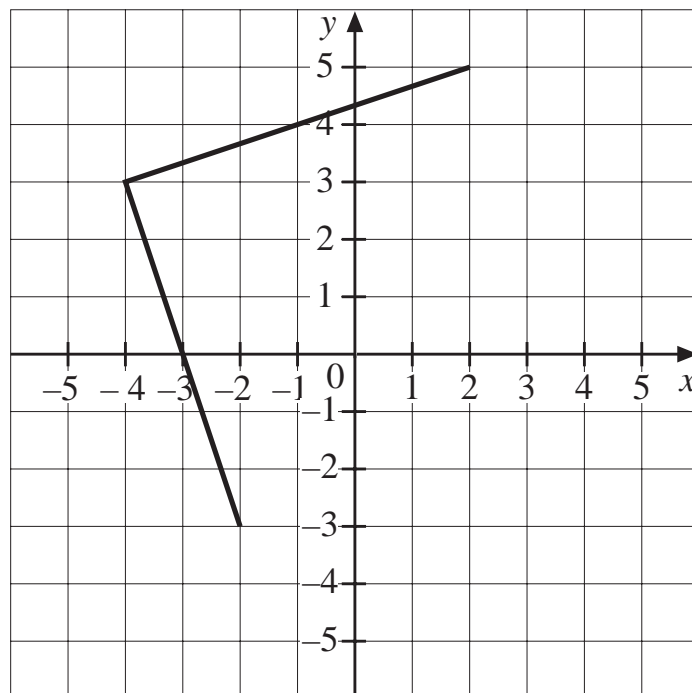
Plotting Polygons

What are the coordinates for the missing corner of each square?

(a)

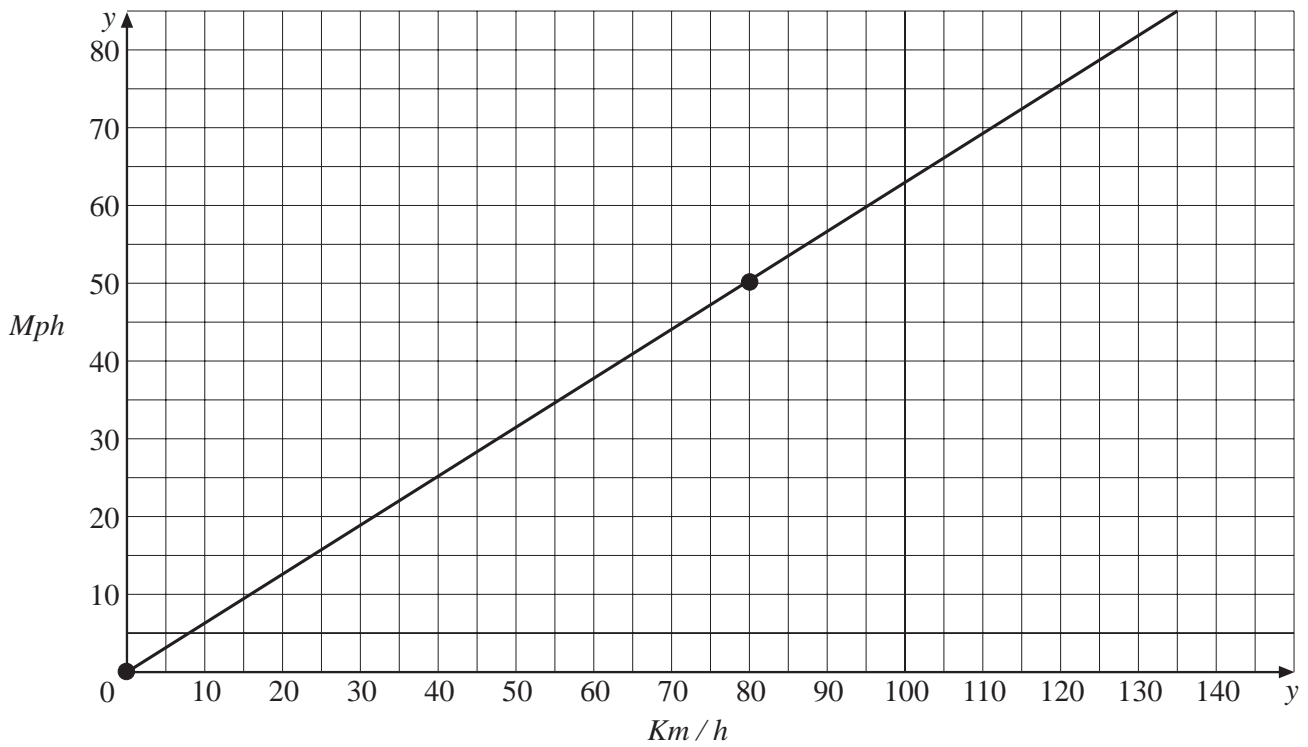
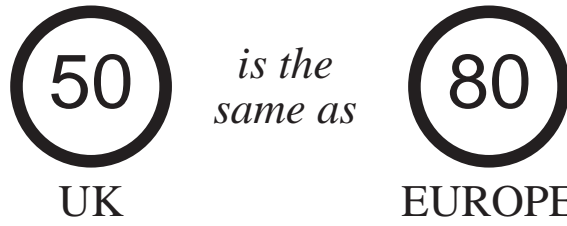


(b)



OS 3.11

Conversion Graphs



BRITISH SPEED LIMIT (mph)	EUROPEAN EQUIVALENT (km/h)	EUROPEAN SPEED LIMIT (km/h)	BRITISH EQUIVALENT (mph)
30	○	110	○
40	○	90	○
70	○	40	○