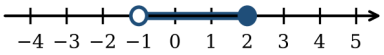
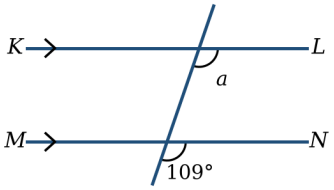
Day 19 **B Tier 10-a-day**

1 (a) Write down the inequality shown on the number line.
(b) Write down all the integers that satisfy the inequality.



2 In the diagram, KL is parallel to MN.
(a) Work out the size of angle a.
(b) Give a reason for your answer.
The diagram is not drawn accurately.



3 A jug holds 2 litres of juice.
Each glass holds 200 ml.
How many glasses can be filled from the jug?

4 The scale of a map is 1 : 10 000.
Two villages are 3.5 cm apart on the map.
Work out the real distance between them.
Give your answer in metres.

5 Solve $4n + 9 \leq 41$

Day 19	B Tier 10-a-day
6 A cylinder has radius 5 cm and height 8 cm. (Calculator) It is closed. Work out the total outside surface area. Give your answer correct to 1 decimal place.	
7 Cereal is sold in two sizes. Small: 250 g for £1.42 Large: 750 g for £3.90 Which size is better value for money? You must show your working.	
8 There are 8×10^4 cells in a sample. The number triples every day. How many are there after 5 days? Give your answer in standard form.	
9 Solve $x^2 - 36 = 0$	
10 A box exerts a force of 150 N and causes a pressure of 15 N/m^2. Work out the area in contact with the ground.	