

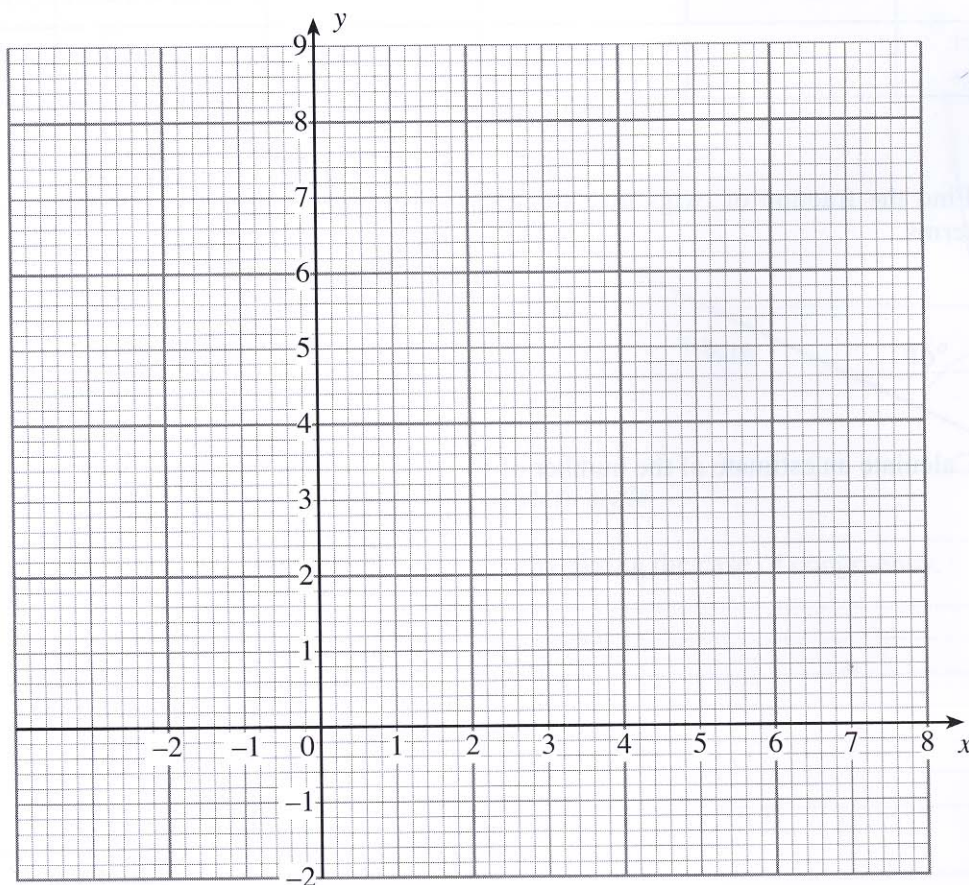
17. On the graph paper provided, draw the region which satisfies **all** of the following inequalities.

$$\begin{aligned}x + y &\leq 8 \\ y &\leq 4x + 1 \\ x &\geq 1 \\ y &\geq 2\end{aligned}$$

Make sure that you clearly indicate the region that represents your answer.



[4]



12. (a) Solve the inequality

$$7x - 3 < 14 + 4x.$$



[2]

(b) Write down the largest whole number that satisfies this inequality.

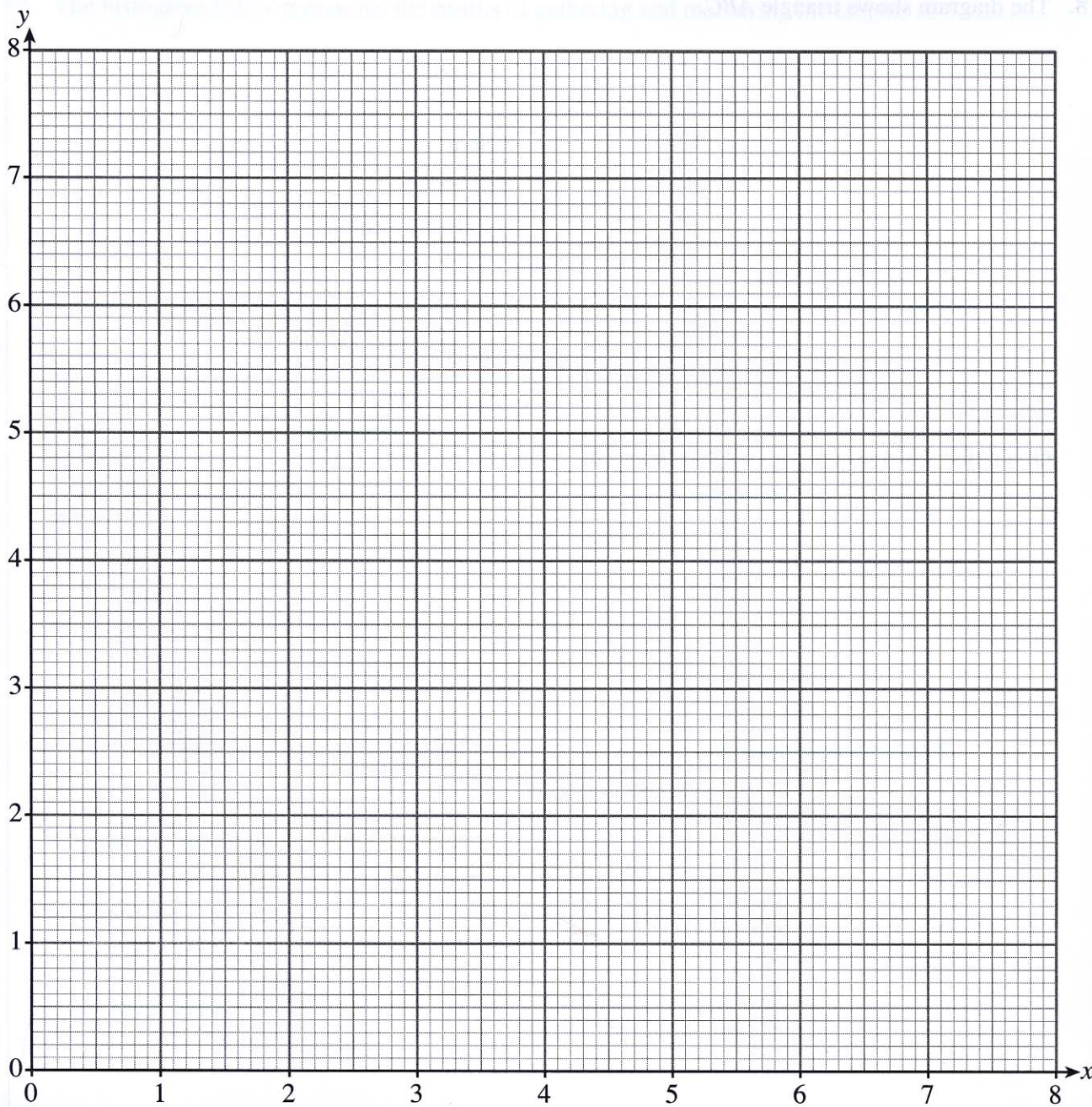
[1]

17. On the graph paper opposite, draw the region which satisfies all of the following inequalities.

$$\begin{aligned}x + y &\leq 8 \\ y &\geq 2x - 1 \\ x &\geq 0\end{aligned}$$

Make sure that you clearly indicate the region that represents your answer.





11. (a) Solve the inequality

$$3x - 11 \leq 7 - 5x.$$



[2]

(b) Write down the largest whole number that satisfies this inequality.

[1]

12. On the graph paper provided on the next page, draw the region which satisfies all of the following inequalities.

$$\begin{aligned}x &\geq -3 \\y &\geq 2x - 1 \\y &\geq 0 \\ \text{and } y &\leq 3 - x\end{aligned}$$

Make sure that you clearly indicate the region that represents your answer.



12. On the graph paper provided on the next page, draw the region which satisfies all of the following inequalities.

$$\begin{aligned}x &\geq -3 \\y &\geq 2x - 1 \\y &\geq 0 \\ \text{and } y &\leq 3 - x\end{aligned}$$

Make sure that you clearly indicate the region that represents your answer.



12. (a) Rearrange the inequality $35 - 3n > 2n + 7$ into the form $n < \text{some number}$.



[2]

- (b) Given that n also satisfies the inequality $3n > 1$, write down all the integer values of n that satisfy both inequalities.

[2]

13. On the graph paper opposite, draw the region, which satisfies all of the following inequalities.

$$\begin{aligned}x &< 4 \\y &> -3 \\2y - x &< -2\end{aligned}$$

Make sure that you clearly indicate the region that represents your answer.



For use with question 13

