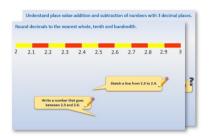
Week 13, Day 5

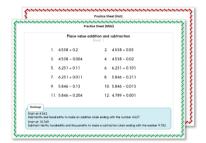
Horizontal, vertical, parallel and perpendicular lines

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

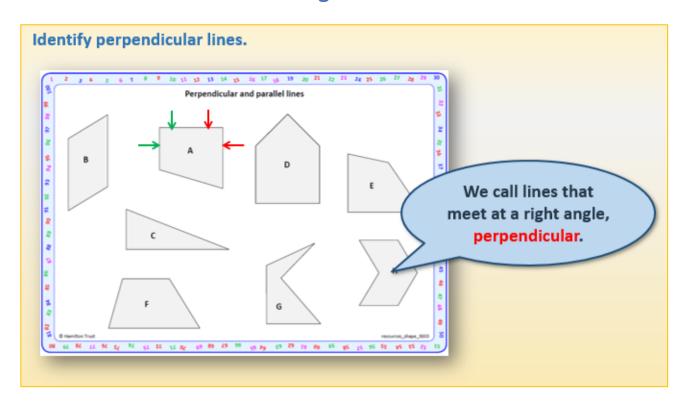


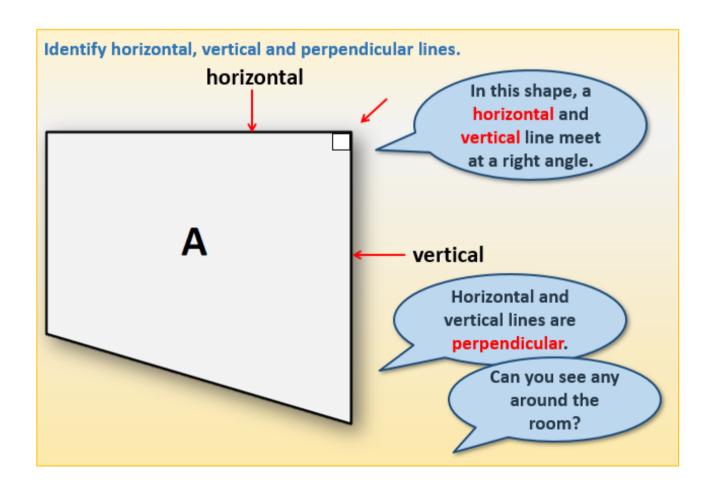
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



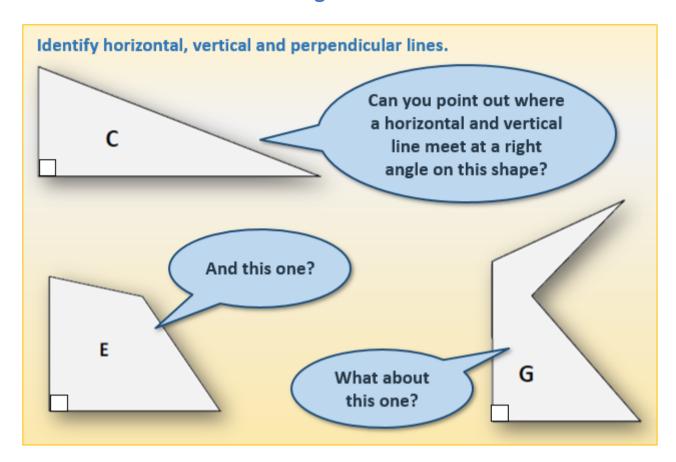
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

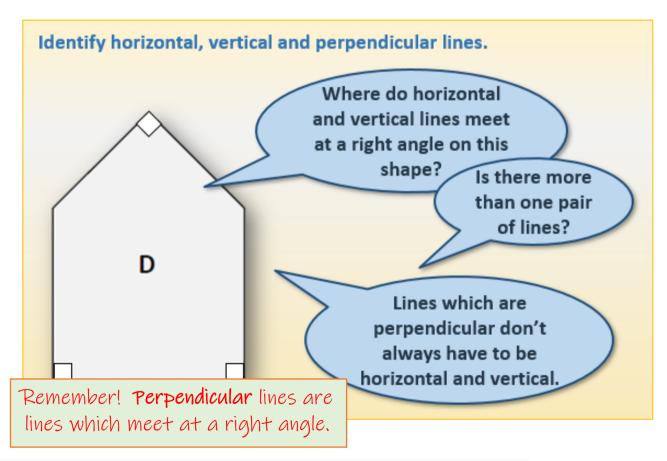
Learning Reminders



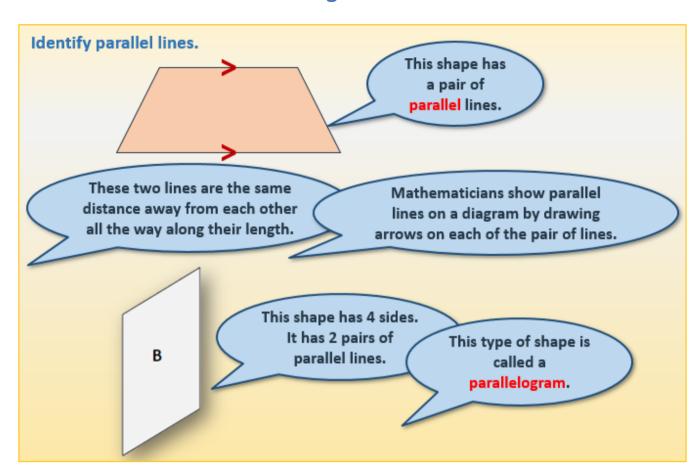


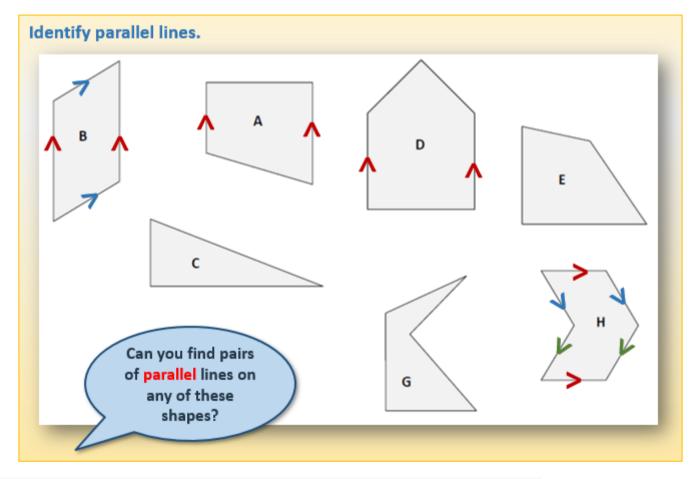
Learning Reminders





Learning Reminders

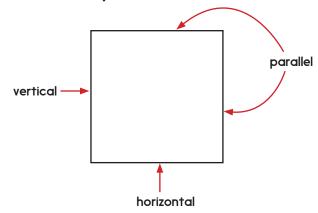


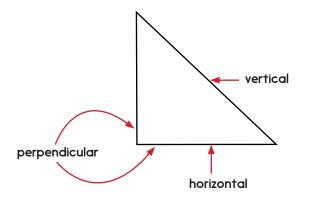


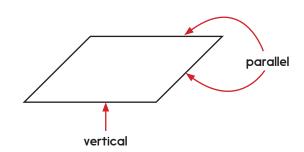
Practice Sheet Mild

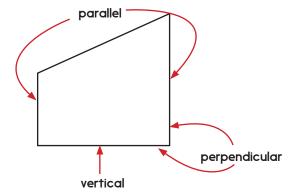
Vertical, horizontal, perpendicular and parallel lines

Draw a tick or cross by each label.









Challenge

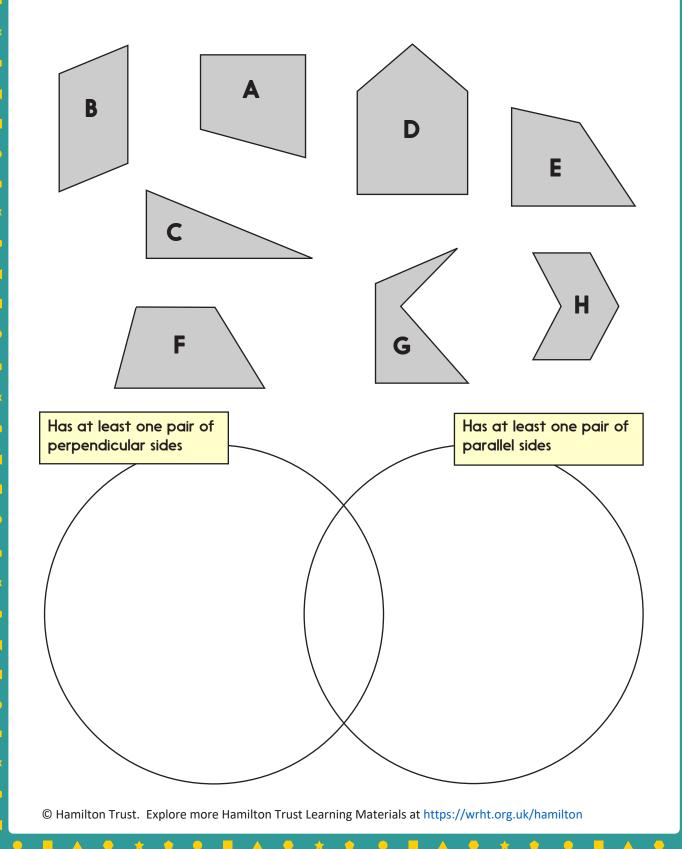
Draw your own shape which has horizontal, vertical, perpendicular and parallel lines!

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Practice Sheet Hot

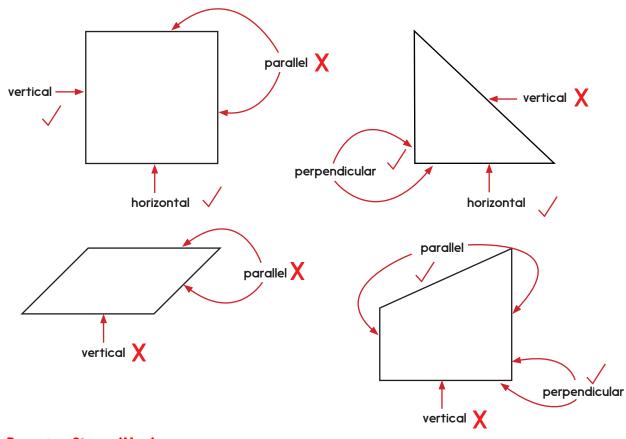
Perpendicular and parallel lines

Write the letter of each shape where it belongs in the Venn diagram.

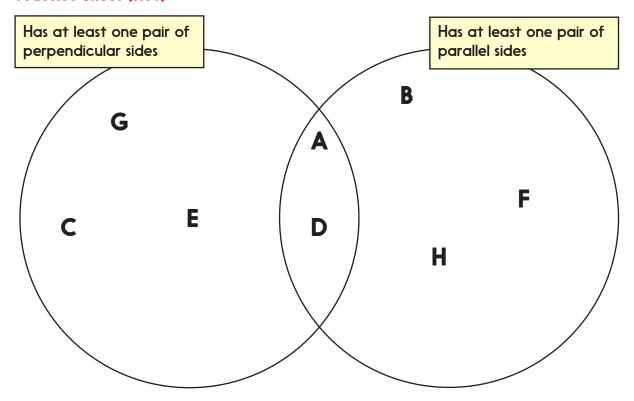


Practice Sheet Answers

Practice Sheet (Mild)



Practice Sheet (Hot)

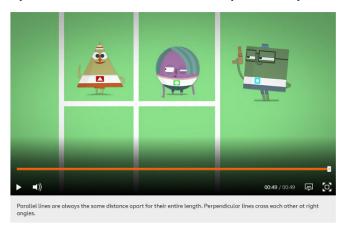


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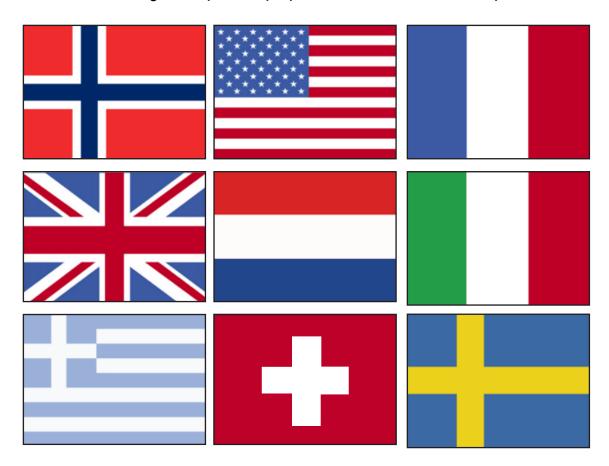
A Bit Stuck? Parallel and perpendicular lines

What to do:

 Watch this video about parallel and perpendicular lines https://www.bbc.co.uk/bitesize/topics/zb6tyrd/articles/zp327hv



Which of these flags have pairs of perpendicular lines? Which have parallel lines?



S-t-r-e-t-c-h:

Design your own flag with both parallel and perpendicular lines.

Investigation

My square, not yours!

- Take a sheet of squared paper and start in the middle of the page.
 One of you draws a long line.
- 2. The second player draws another long line in a different colour. This can be parallel with the line the first person drew or perpendicular to it. If it is parallel, it must be no more than one square away from the other line, on either side.
- 3. Keep taking turns until you have each drawn 13 lines! Look at your drawing.
- 4. Shade in any squares which have all four sides drawn in your colour. Your partner does the same in their colour.
- 5. Count your squares.

冷

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×2

cm3

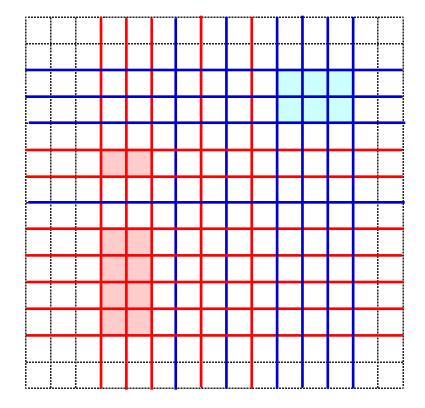
The person with the most squares is the winner.

Is it possible to plan ahead, so that you will definitely get some squares of your own?

3

3

Play again and this time, try to plan ahead...



In this game, red won!

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 $4 + ? = x cm^3 \frac{1}{2} \div \frac{1}{2} \times m^2 \times \% 4 \% - cm ? x \div \frac{1}{2}$

