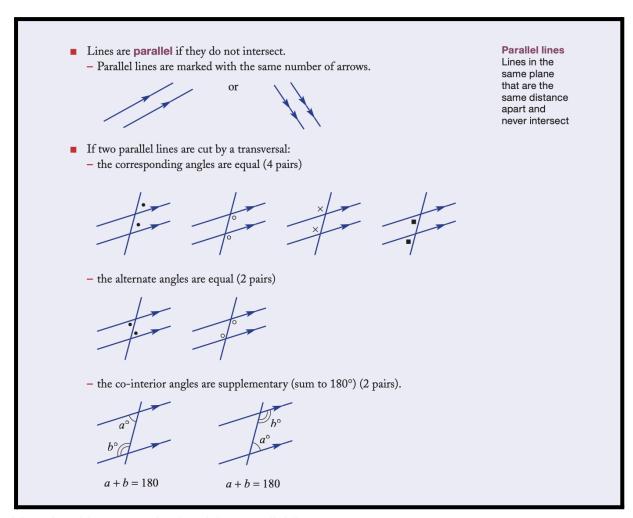
WALT solve angles involving parallel lines

Success Criteria

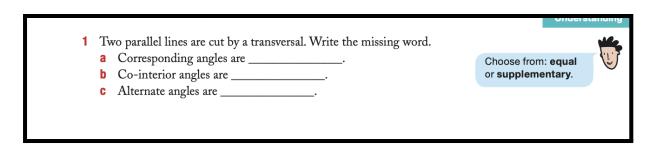
- I can identify parallel lines and corresponding and alternate angles.
- I can use the properties of corresponding and alternate angles to find missing angles.
- I can solve problems involving angles formed by parallel lines.

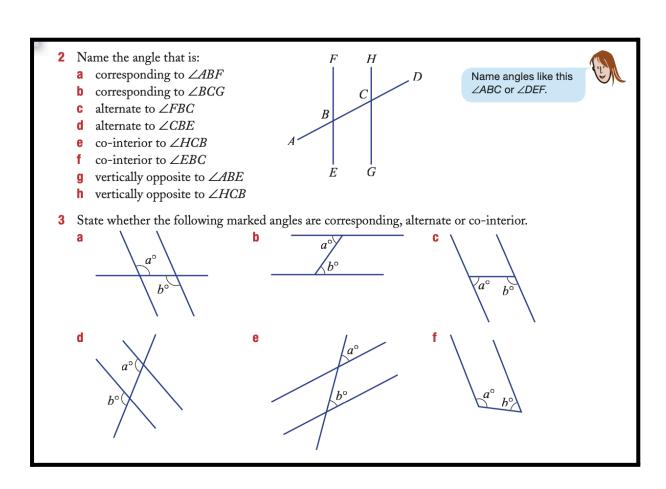
Copy the diagrams

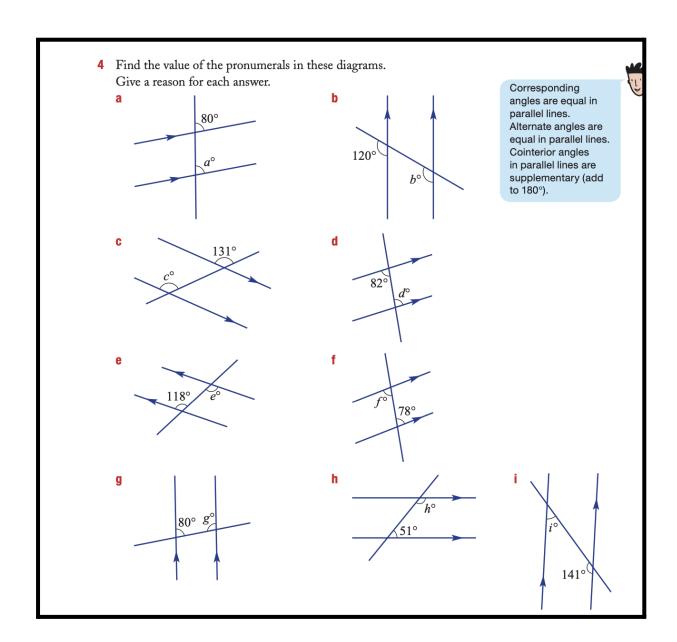


View the video on angles involving parallel lines

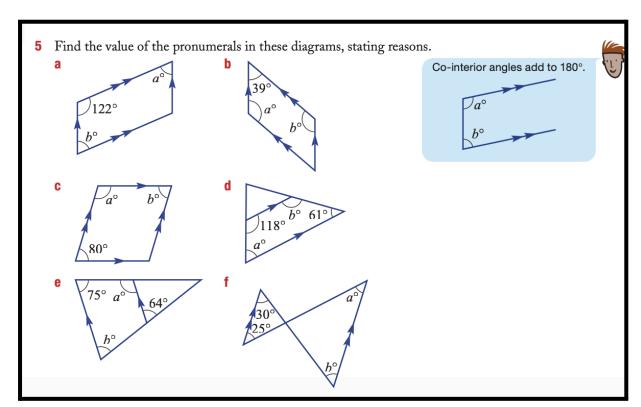
Use the information from the diagram and answer your questions



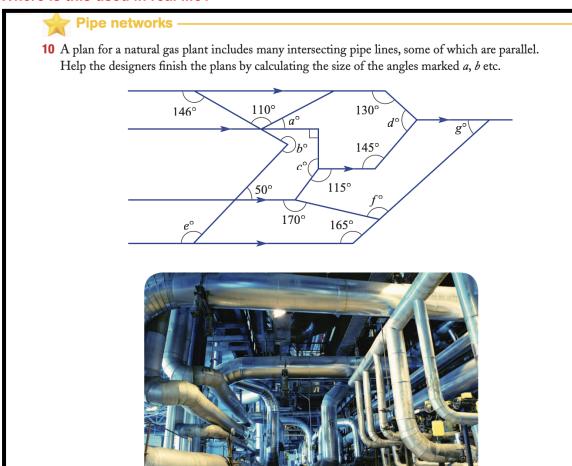




Extension



Where is this used in real life?



1 a equal **b** supplementary **c** equal 2 a $\angle BCH$ b $\angle ABE$ $d \angle BCH$ c $\angle GCB$ $f \angle GCB$ e $\angle FBC$ $h \angle DCG$ $\mathbf{q} \angle FBC$ **3 a** alternate **b** alternate **c** co-interior **d** corresponding **e** corresponding f co-interior **4 a** 80 (corresponding) **b** 120 (corresponding) c 131 (corresponding) d 82 (alternate) e 118 (alternate) f 78 (alternate) **g** 100 (co-interior) **h** 129 (co-interior) i 39 (co-interior) **5 a** a = 58, b = 58 (both co-interior to 122°) **b** a = 141, b = 141 (both co-interior to 39°) **c** a = 100 (co-interior to 80°), b = 80 (co-interior to a°) **d** a = 62 (co-interior to 118°), b = 119 (co-interior to 61°) **e** a = 105 (co-interior to 75°), b = 64 (corresponding to 64°) **f** a = 25 (alternate to 25°), b = 30 (alternate to 30°) **10** a = 36, b = 276, c = 155, d = 85,

10
$$a = 36, b = 276, c = 155, d = 85, e = 130, f = 155, g = 15$$