WALT to write down angle sizes on a parallel line
Success Criteria: I know the rules for calculating angles

- I can identify parallel lines
- I know that line that cuts across two parallel line is called a transversal cuts parallel lines


## Video

## To do

I need to learn The rules

- Corresponding angles are equal.
- Vertical angles/ Vertically opposite angles are equal.
- Alternate interior angles are equal.
- Alternate exterior angles are equal.
- Pair of interior angles on the same side of the transversal are supplementary.


## Practical work to build my understanding

Draw two parallel lines making sure that the lines are parallel which means the distance is maintained use your grid lines.

Now use a protractor and measure the angles that I have marked on board


Write your finding and match with the rules given

Rules


Question 1: Write down the sizes of the lettered angles.
(a)

(b)

(c)

(d)

(e)

(f)


Question 2:
(a) Which angle is corresponding to angle $c$ ?

(b) Which angle is alternate to angle d?
(c) Which angle is corresponding to angle $h$ ?
(d) Which angle is vertically opposite to angle a?
(e) Which angle is alternate to angle $e$ ?
(f) Which angle is co-interior with angle c?
(g) Which angle is vertically opposite to angle $h$ ?
(h) Which angle is co-interior with angle e?
(i) Which angle is corresponding to angle a?
(j) Which angle is vertically opposite to angle g?

Question 3: Find the angle $x$ in each question below.
Give reasons for your answer.
(a)

(b)

(c)

(d)

(e)

(f)


Question 4: Find the angle $x$ in each question below.
Give reasons for your answer.
(a)

(b)

(c)

(d)

(e)
(f)


Apply your knowledge to show your understanding

Question 1: Are the lines AB and CD parallel? Explain your answer.


Question 2: Find the missing angle.
Give reasons for your answer.

Question 3: Find $x$


Question 4: Find $x$


Question 5: Matilda is proving that the angles in a triangle add up to $180^{\circ}$. She has started with this diagram.
Complete her proof.


