## Angles in Quadrilaterals

1. Tallen has been calculating the missing angles in the shapes below. Check his work and correct any mistakes.


| Angle | Size |
| :---: | :---: |
| a | $40^{\circ}$ |
| b | $70^{\circ}$ |
| c | $80^{\circ}$ |
| d | $110^{\circ}$ |
| e | $100^{\circ}$ |

Quadrilaterals not drawn to scale.
2. Match the shape to the correct statement.

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3. Millie says:


Can Millie be correct? Prove it.

## Angles in Quadrilaterals

4. Maria has been calculating the missing angles in the shapes below. Check her work and correct any mistakes.


| Angle | Size |
| :---: | :---: |
| a | $110^{\circ}$ |
| b | $110^{\circ}$ |
| c | $115^{\circ}$ |
| d | $60^{\circ}$ |
| e | $55^{\circ}$ |



Quadrilaterals not drawn to scale.
5. Match the shape to the correct statement.


The missing angle is $35^{\circ}$.

The opposite angles are equal.

This shape has one pair of parallel sides.
6. Pedro says:


Can Pedro be correct? Prove it.

## Angles in Quadrilaterals

7. Moss has been calculating the missing angles in the shapes below. Check his work and correct any mistakes.


| Angle | Size |
| :---: | :---: |
| a | $61^{\circ}$ |
| b | $92^{\circ}$ |
| c | $184^{\circ}$ |
| d | $143^{\circ}$ |
| e | $143^{\circ}$ |

8. Match the shape to the correct statement.

9. Hannah says:


## Homework/Extension <br> Angles in Quadrilaterals

## Developing

1. Corrections include: $a=90^{\circ}, b=80^{\circ}, e=110^{\circ}$
2. $\mathrm{C} ; \mathrm{A} ; \mathrm{B}$ or $\mathrm{A}=$ angle x measures $30^{\circ} ; \mathrm{B}=$ the missing angle is half of $100^{\circ} ; \mathrm{C}=$ each angle measures $90^{\circ}$
3. Millie cannot be correct as her angles total $340^{\circ}$ and not $360^{\circ}$.

## Expected

4. Corrections include: $\mathrm{a}=105^{\circ}, \mathrm{b}=105^{\circ}, \mathrm{d}=55^{\circ}$
5. $\mathrm{B} ; \mathrm{A} ; \mathrm{C}$ or $\mathrm{A}=$ the opposite angles are equal; $\mathrm{B}=$ the missing angle is $35^{\circ}$; $\mathrm{C}=$ this shape has one pair of parallel sides.
6. Pedro can not be correct as his angles total $370^{\circ}$ and not $360^{\circ}$.

## Greater Depth

7. Corrections include: $a=63^{\circ}, b=94^{\circ}, c=188^{\circ}$
8. $C$; $A ; B$ or $A=$ all the angles of this shape are different sizes; $B=$ the missing angle is $168^{\circ} ; C=$ the missing angle is $136^{\circ}$.
9. Hannah is correct. There are now five angles of $90^{\circ}$ and one angle of $270^{\circ}$, which total $720^{\circ}$.

