

Miss Robinson's

Maths Group

Homework

Summer Week 2



Remember to set your work out clearly and write in pencil.

Please try all questions.

Please DO NOT print any of this homework. Write answers directly into your Homework Book and include any working out.

Please have your homework in school on
Friday 24th April, 2026.

LI: to be able to add fractions with unlike denominators

From last term's lessons, remember that fractions must have the same denominator to be able to add and subtract them.

$$\text{So, } \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

The denominator stays the same but you add the numerators.

$$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Remember that 6 is the *lowest common multiple* of 2 and 3.

Fractions – Addition

Arithmetic

Following the example on the previous page, add the following fractions.

1. $\frac{3}{4} + \frac{5}{8} =$

2. $\frac{2}{3} + \frac{1}{2} =$

3. $\frac{7}{8} + \frac{4}{5} =$

4. $\frac{9}{10} + \frac{1}{4} =$

5. $\frac{5}{8} + \frac{1}{3} =$

6. $\frac{7}{9} + \frac{1}{2} =$

7. $\frac{3}{10} + \frac{5}{6} =$

8. $\frac{1}{8} + \frac{1}{3} =$

9. $\frac{1}{12} + \frac{4}{5} =$

10. $\frac{1}{2} + \frac{1}{11} =$

11. $2\frac{1}{2} + \frac{1}{3} =$

12. $\frac{3}{5} + 1\frac{1}{4} =$

Arithmetic

Calculate 10% then 20% of each amount.
Do this mentally.

10%

20%

a) £14.90

b) 34.8kg

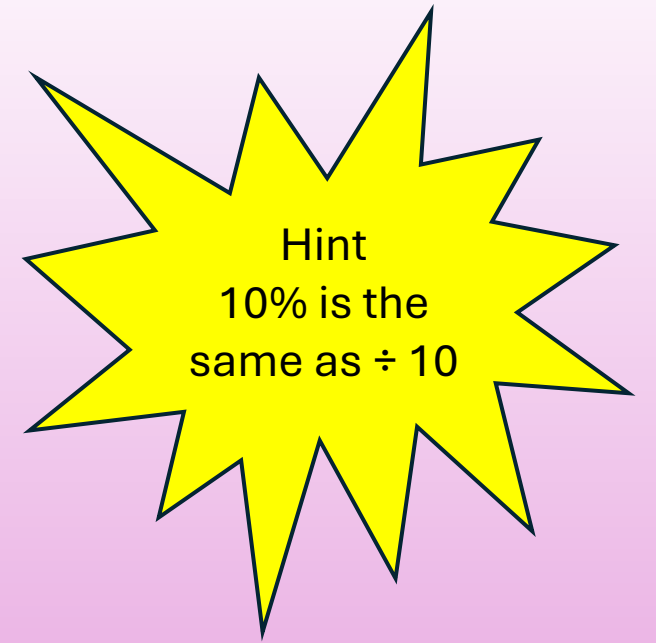
c) 2284

d) 98g

e) 641km

f) £32.68

g) 2 679m



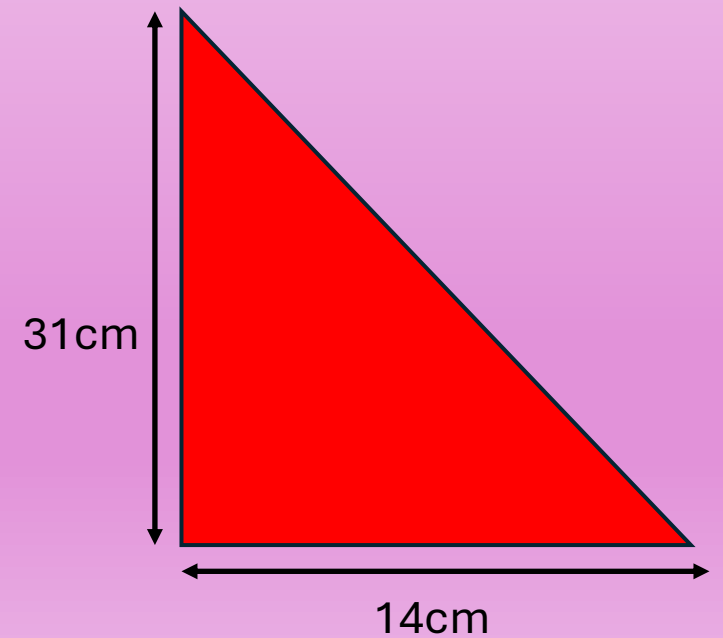
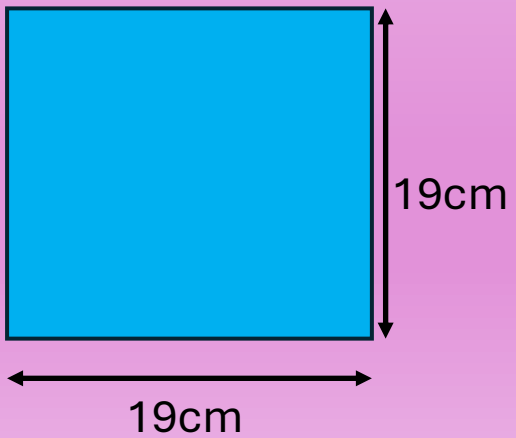
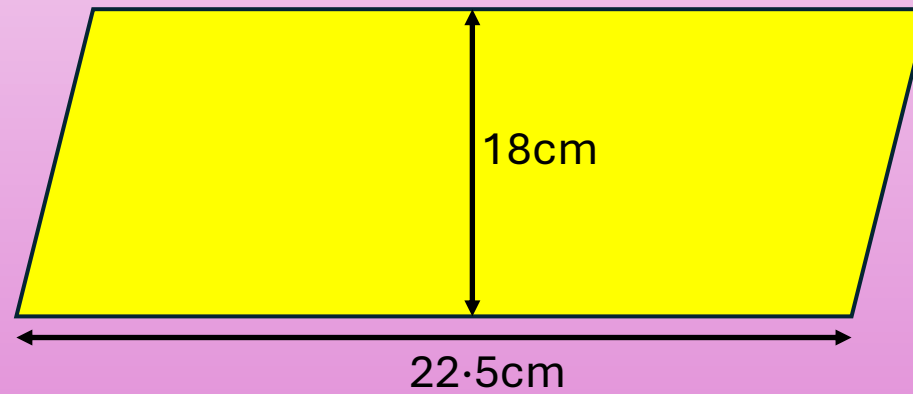
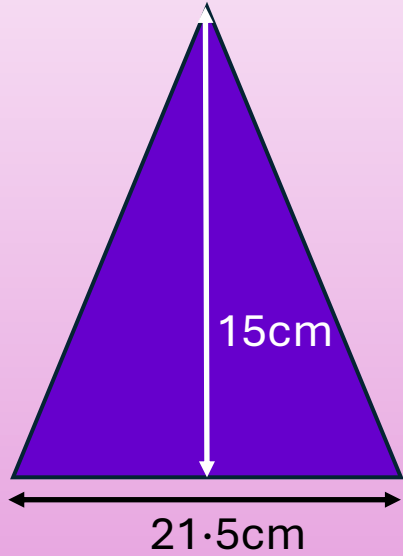
LI: to be able to calculate the areas of squares, rectangles, triangles and parallelograms.

We have spent some time working on this in class.

Area of quadrilaterals = length and width

Area of triangles = $\frac{1}{2}$ x base x height

Calculate the areas of the following shapes.



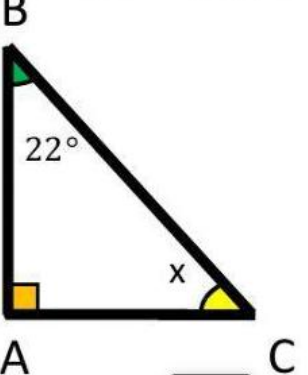
We have been calculating the missing angles in triangles and quadrilaterals this week.

What is the *key fact* when calculating missing angles in triangles?

What is the *key fact* when calculating missing angles in quadrilaterals?

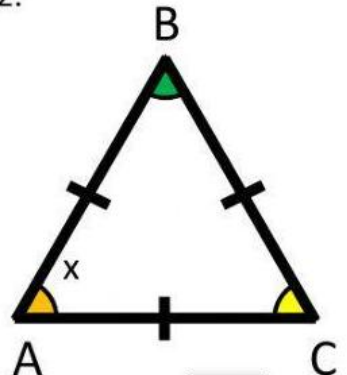
LI: to be able to calculate the missing angles in triangles and quadrilaterals

1. Find the missing angle



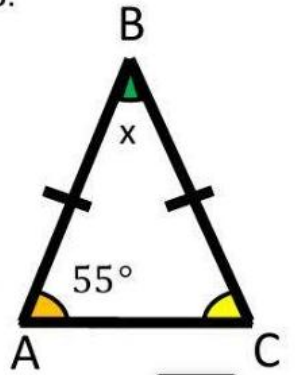
Answer: $x = \square^\circ$

2.



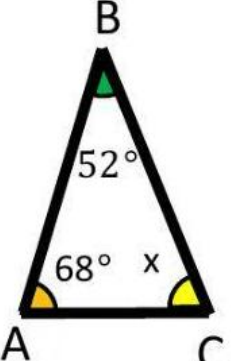
Answer: $x = \square^\circ$

3.



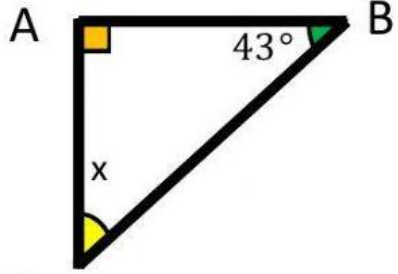
Answer: $x = \square^\circ$

4.



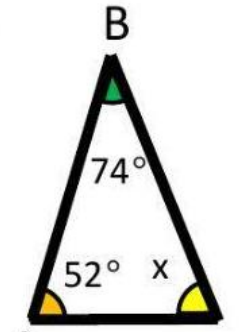
Answer: $x = \square^\circ$

5.



Answer: $x = \square^\circ$

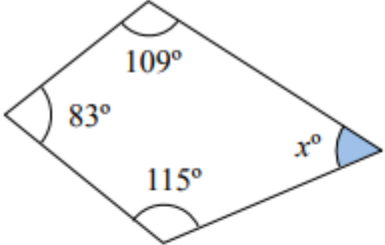
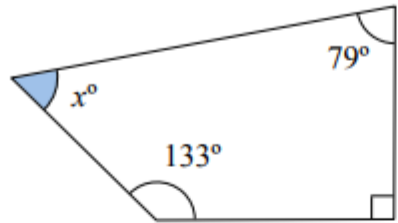
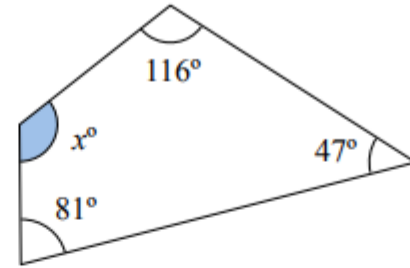
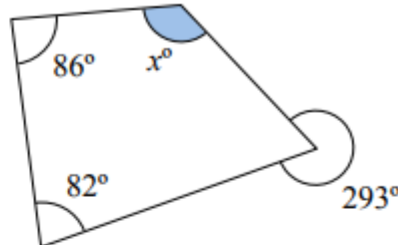
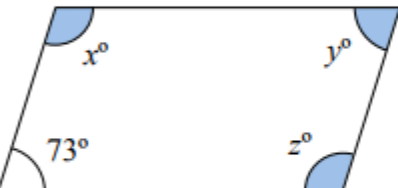
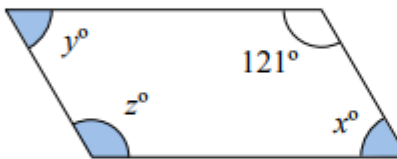
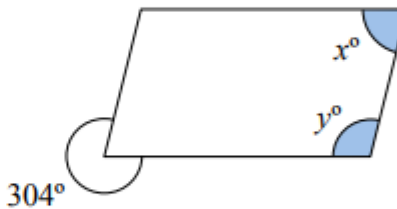
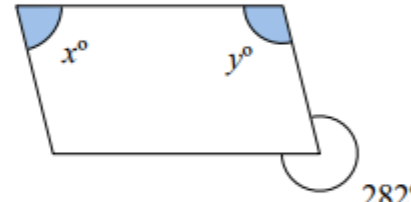
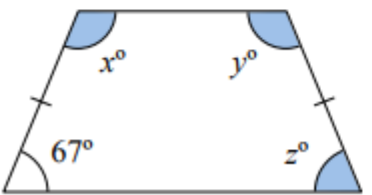

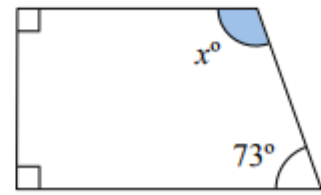
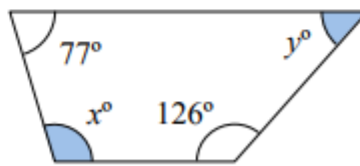
6.



Answer: $x = \square^\circ$

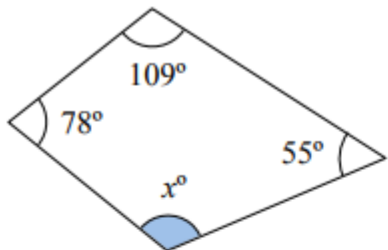
Show all your working out in your Homework Book.

LI: to be able to calculate the missing angles in triangles and quadrilaterals

<p>A1 Work out the value of x</p> 	<p>A2 Work out the value of x</p> 	<p>A3 Work out the value of x</p> 	<p>A4 Work out the value of x</p> 
<p>B1 This is a parallelogram.</p>  <p>Work out the values of x, y and z</p>	<p>B2 This is a parallelogram.</p>  <p>Work out the values of x, y and z</p>	<p>B3 This is a parallelogram.</p>  <p>Work out the values of x and y</p>	<p>B4 This is a parallelogram.</p>  <p>Work out the values of x and y</p>
<p>C1 This is an isosceles trapezium.</p>  <p>Work out the values of x, y and z</p>	<p>C2 This is an isosceles trapezium.</p>  <p>Work out the values of x and y</p>	<p>C3 This is a trapezium.</p>  <p>Work out the value of x</p>	<p>C4 This is a trapezium.</p>  <p>Work out the values of x and y</p>

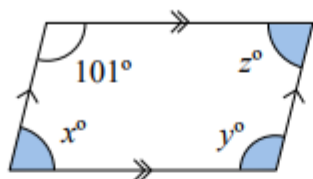
CHALLENGE!

A1 This quadrilateral is irregular



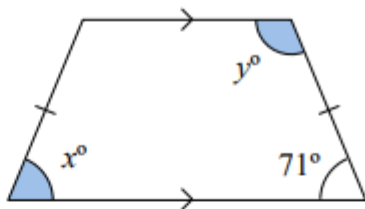
Work out the value of x

A2 This is a parallelogram.



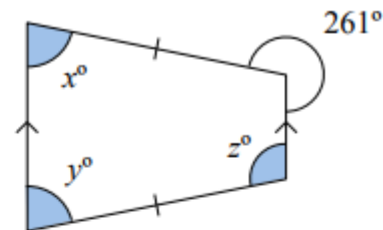
Work out the values of x , y and z

A3 This is an isosceles trapezium.



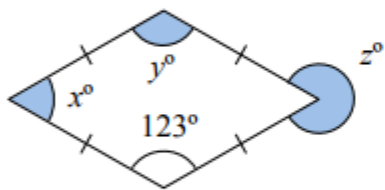
Work out the values of x and y

A4 This is an isosceles trapezium.



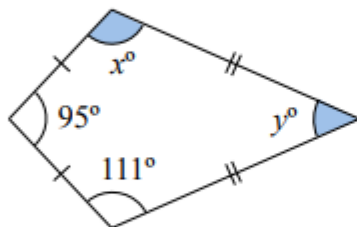
Work out the values of x , y and z

B1 This is a rhombus.



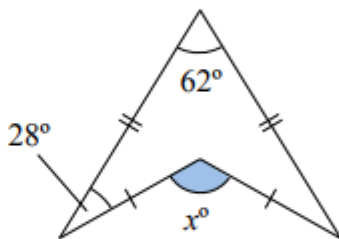
Work out the values of x , y and z

B2 This is a kite.



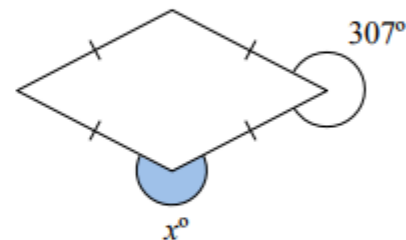
Work out the values of x and y

B3 This is an arrowhead (delta).



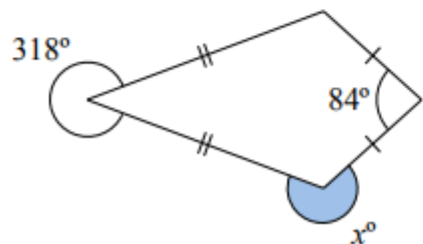
Work out the value of x

B4 This is a rhombus.



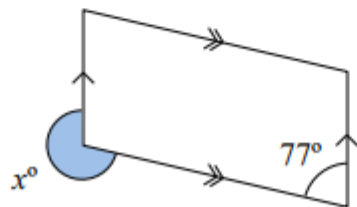
Work out the value of x

C1 This is a kite.



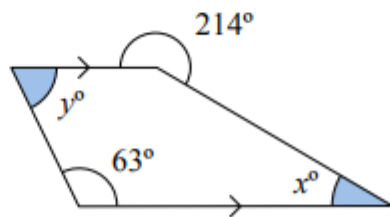
Work out the value of x

C2 This is a parallelogram.



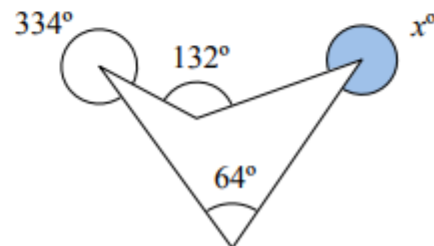
Work out the value of x

C3 This is a trapezium.



Work out the values of x and y

C4 This quadrilateral is irregular.



Work out the value of x

Remember to bring any questions about the work into Monday's lesson.

Have a wonderful weekend!