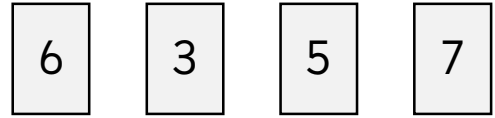


Problem solving 3

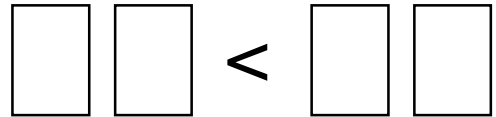
Sue is counting backwards in 5s from 73.

Each number Mo says will be odd.

Always, sometimes or never?
Explain your answer.



Place each number in the comparison to make it true. How many ways can you find?



What number could go in the box to make the comparison true?

$$9 + 6 \quad 10 + \quad \boxed{?}$$

List all possibilities.

True or false?

	True	False
Ten less than 43 is 34.	<input type="checkbox"/>	<input type="checkbox"/>
28... 38... 48... The next number is 68.	<input type="checkbox"/>	<input type="checkbox"/>
Ten more than 62 is ten less than 82.	<input type="checkbox"/>	<input type="checkbox"/>
Ten more than 27 is 10 less than 47.	<input type="checkbox"/>	<input type="checkbox"/>

7 tens and 2 ones is less than ____
which is less than 79.

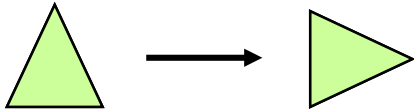
Complete the comparison above using only odd numbers.

List all possibilities below.

Cross (x) the number sentences that are incorrect.

- a $14 + 5 = 12 + 7$
- b $10 + 7 > 11 + 6$
- c $18 - 6 < 16 - 4$
- d $17 - 8 > 3 + 4$

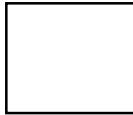
Problem solving 3



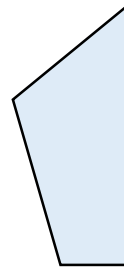
I have rotated the shape three quarter turns clockwise.

What mistake has Jess made?

Draw what it should look like after three quarter turns clockwise?



Draw the missing half of the shape that would be reflected in the line of symmetry.



What is the 2D shape you have completed?

Explain how you know.

Four lots of 5m $>$ $\frac{1}{4}$ of 100m

True

False

Explain how you know.

The ribbon below measures 12cm in length.

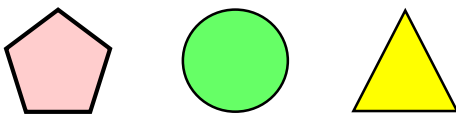


If we stretch the ribbon it will still measure 12cm in length.

True

False

Explain your answer.



The triangle is to the left of the circle.
The pentagon is to the right of the circle.

Is Rob correct?

Explain how you know.

Order the ribbons from **shortest** to **longest**.

A is double 23 cm.

B is half of 80 cm.

C is less than 43cm but more than 41cm.

Shortest Longest

Answers – Problem solving 3

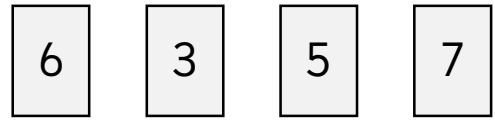
Sue is counting backwards in 5s from 73.

Each number Mo says will be odd.

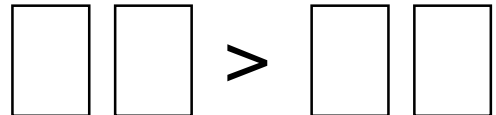
Always, sometimes or never?
Explain your answer.

Sometimes.

Each number will end in either 3 or 8 so is a mixture of odd and even numbers.



Place each number in the comparison to make it true. How many ways can you find?



Any valid comparison, e.g. $75 > 63$

What number could go in the box to make the comparison true?

$$9 + 6 > 10 + \boxed{?}$$

List all possibilities.

4, 3, 2, 1 and 0.

True or false?

	True	False
Ten less than 43 is 34.		✓
28... 38... 48... The next number is 68.		✓
Ten more than 62 is ten less than 82.	✓	
Ten more than 27 is 10 less than 57.		✓

7 tens and 2 ones is less than ____
which is less than 79.

Complete the comparison above using only odd numbers.

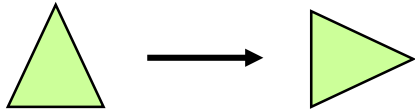
List all possibilities below.

73, 75, 77.

Cross (x) the number sentences that are incorrect.

- a $14 + 5 = 12 + 7$
- b $10 + 7 > 11 + 6$
- c $18 - 6 < 16 - 4$
- d $17 - 8 > 3 + 4$

Answers – Problem solving 3

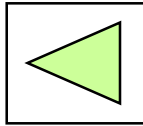


I have rotated the shape three quarter turns clockwise.

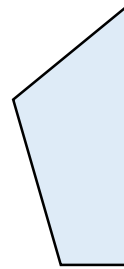
What mistake has Jess made?

Jess has rotated the shape a quarter turn clockwise or three quarter turns anticlockwise.

Draw what it should look like after three quarter turns clockwise?



Draw the missing half of the shape that would be reflected in the line of symmetry.



What is the 2D shape you have completed? Explain how you know.

Pentagon as it has 5 sides and 5 vertices.

Four lots of 5m $>$ $\frac{1}{4}$ of 100m

True

False

Explain how you know.

Four lots of 5m = 20m

$\frac{1}{4}$ of 100m = 25m.

Therefore four lots of 5m $<$ $\frac{1}{4}$ of 100m (not $>$).

The ribbon below measures 12cm in length.



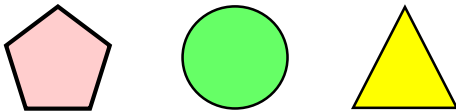
If we stretch the ribbon it will still measure 12cm in length.

True

False

Explain your answer.

If stretched out it will measure **more than 12cm** as it will be longer.



The triangle is to the left of the circle.
The pentagon is to the right of the circle.

Is Rob correct?

Explain how you know.

No. The triangle is to the **right** of the circle and the pentagon is to the **left** of the circle.

Order the ribbons from **shortest** to **longest**.

A is double 23cm. (46cm)

B is half of 80cm. (40cm)

C is less than 43cm but more than 41cm. (42cm)

Shortest B C A Longest