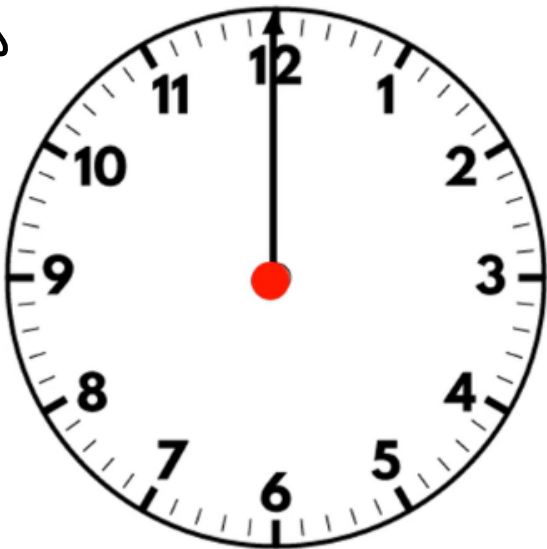
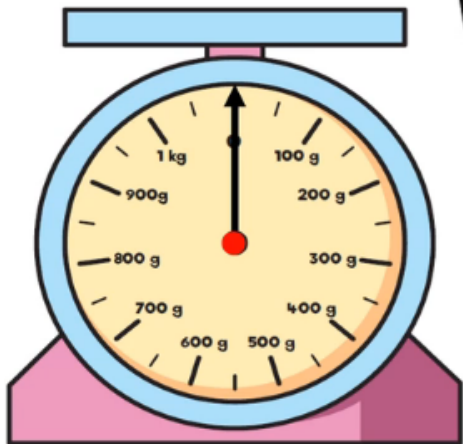


LO: to calculate missing angles. (around a point).

I
do

Each hour is 30⁰



Model on flipchart clock

we
do

Using your clock face

Calculate the angles from-

12 o'clock- 6 o'clock

12 o'clock- 9 o'clock

6 o'clock- 3 o'clock

2 o'clock- 8 o'clock What do you notice?

How many ways can you make 180 degrees?

How many ways can you make 90 degrees?

you
do

In your books, write the times

How many ways can you make 180 degrees?

How many ways can you make 90 degrees?

180 degrees

12 o'clock to 6 o'clock

I
do

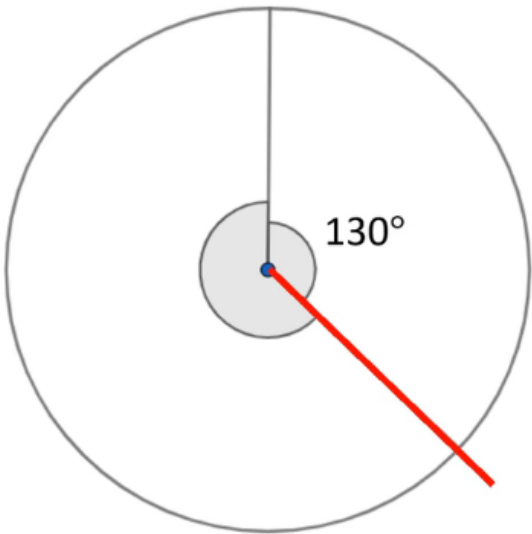


Full turn = 360°

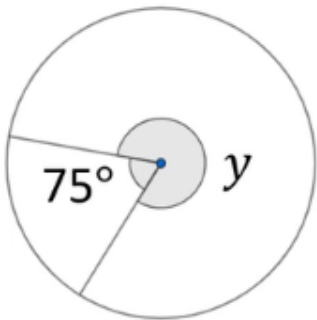
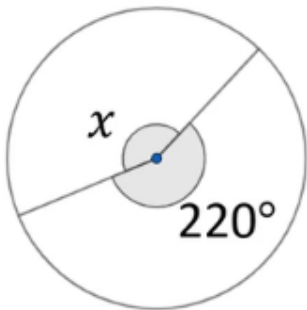
Half a turn = 180°

Quarter of a
turn = 45°

I
do



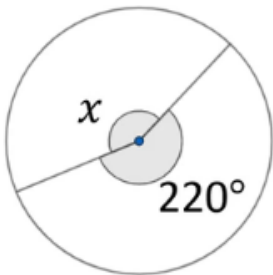
we
do



Have a go on your whiteboards

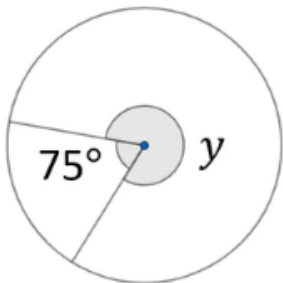
we
do

Answers



360°	
x	220°

$360^\circ - 220^\circ = x$
 $140^\circ = x$



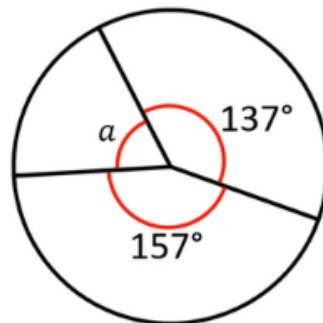
360°	
75°	y

$360^\circ - 75^\circ = y$
 $285^\circ = y$

I
do

we
do

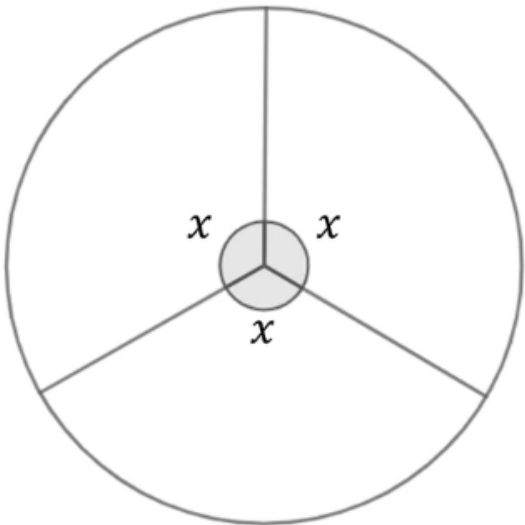
Calculate the missing angle



What has changed?

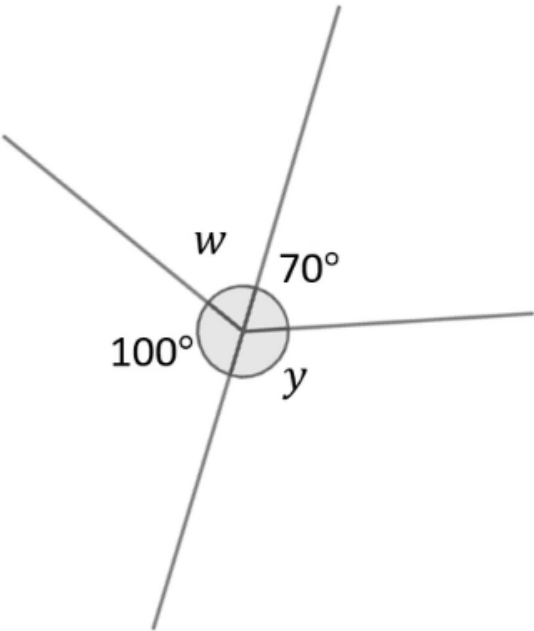
How will this change the calculation?

we
do



What do you
notice?

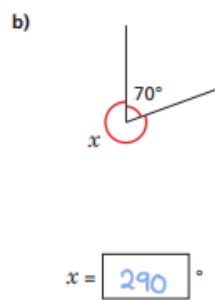
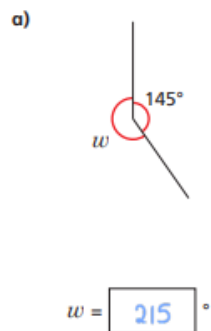
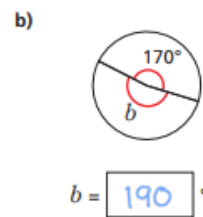
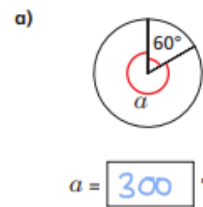
I
do



two straight lines
around a point

LO: to calculate missing angles. (around a point).

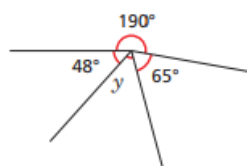
Answers



Ron turns clockwise through 110 degrees.
He continues to turn the same way.
He wants to turn to where he was facing at the start.
How many more degrees does he need to turn through?

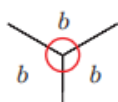


Answers



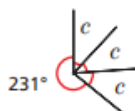
Give reasons to support your answers.

a)



$$b = \boxed{120}^\circ \text{ because } \underline{\text{angles around a point sum to } 360^\circ \text{ and } 360 \div 3 = 120}$$

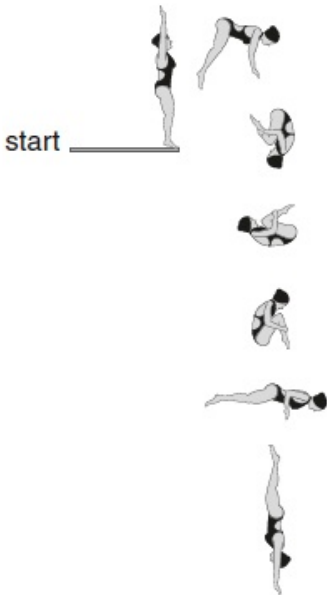
b)



$$c = \boxed{43}^\circ \text{ because } \underline{\text{angles around a point sum to } 360^\circ, 360 - 231 = 129 \text{ and } 129 \div 3 = 43}$$

$$y = \boxed{57}^\circ$$

Answers



540

Attachments

Factor Bugs.pptx