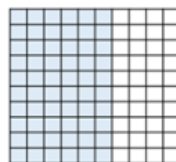


Warm-Up Challenge

Flashback 4

1) What percentage is shaded?



2) Write $2\frac{7}{1000}$ as a decimal

3) Work out $3\frac{1}{2} + 4\frac{3}{5}$

4) Which angle is an obtuse angle?

37°

137°

237°

337°



Activate Windows
Go to Settings to activate



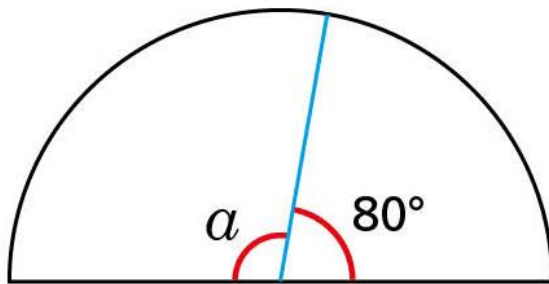
Calculating Angles

Calculating straight line angles...

Thinking back to Week 5 of your Home Learning, what can you remember...

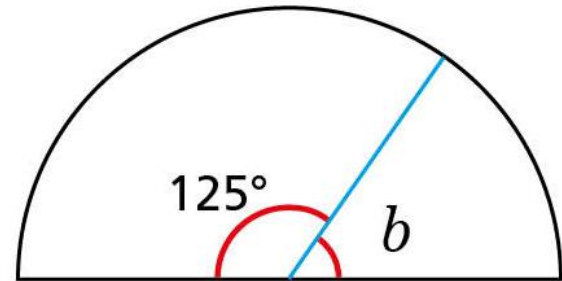
Work out the sizes of the unknown angles.

a)



$$a = \boxed{}^\circ$$

b)

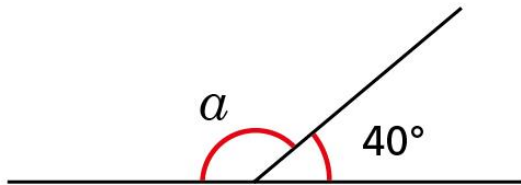


$$b = \boxed{}^\circ$$

Calculating Angles

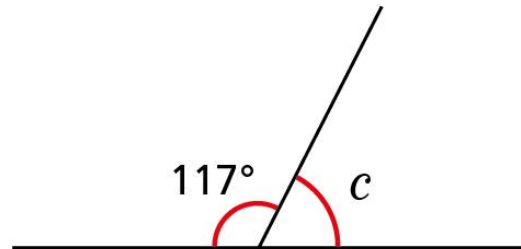
Calculating more straight line angles...

a)



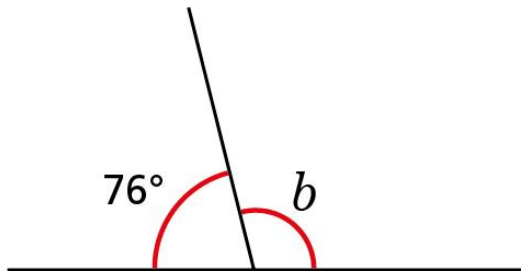
$$a = \boxed{}^\circ$$

c)



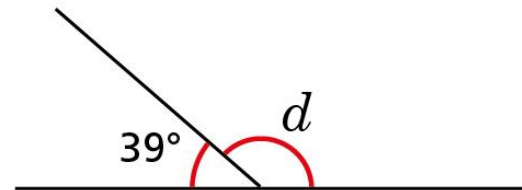
$$c = \boxed{}^\circ$$

b)



$$b = \boxed{}^\circ$$

d)



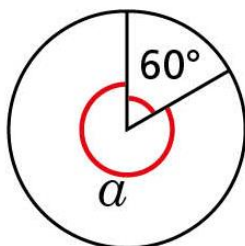
$$d = \boxed{}^\circ$$

Calculating Angles

Calculating angles around a point (*a full turn*)...

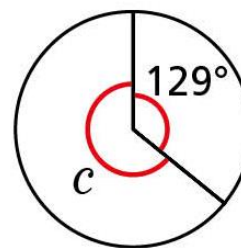
Work out the sizes of the unknown angles.

a)



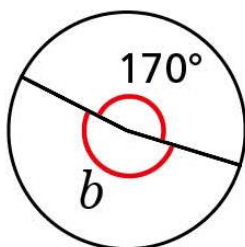
$$a = \boxed{}^\circ$$

c)



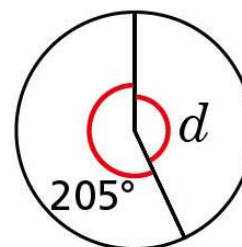
$$c = \boxed{}^\circ$$

b)



$$b = \boxed{}^\circ$$

d)

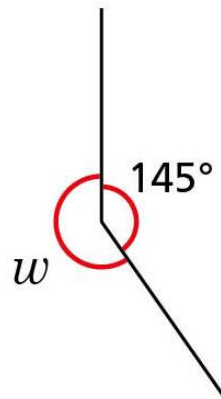


$$d = \boxed{}^\circ$$

Calculating Angles

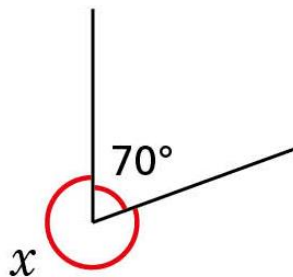
Calculating more angles around a point...

a)



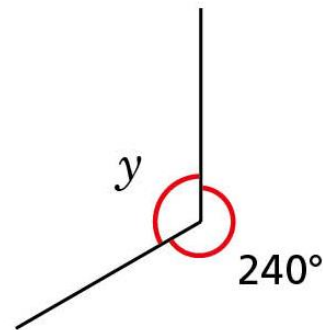
$$w = \boxed{}^\circ$$

b)



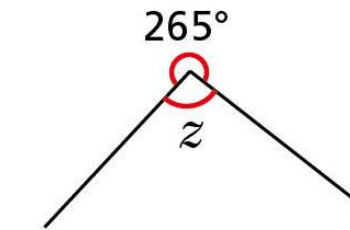
$$x = \boxed{}^\circ$$

c)



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

d)

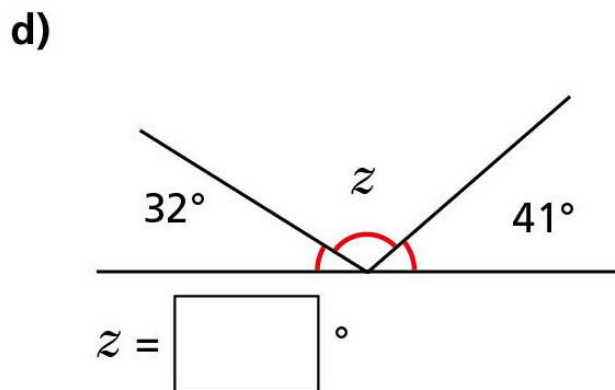
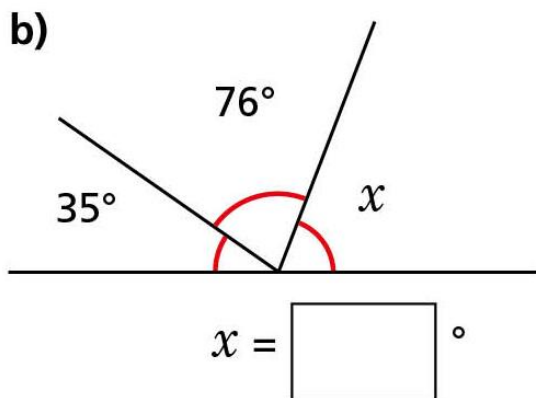
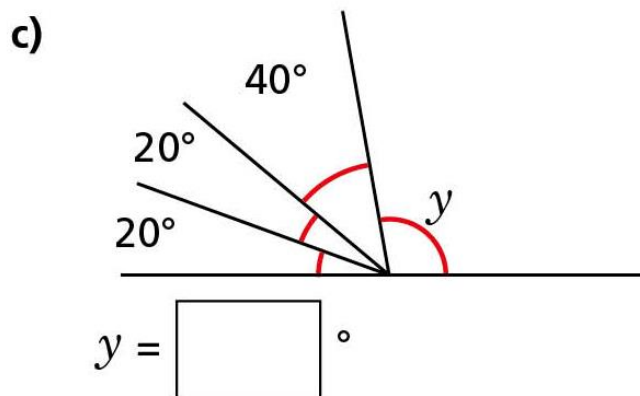
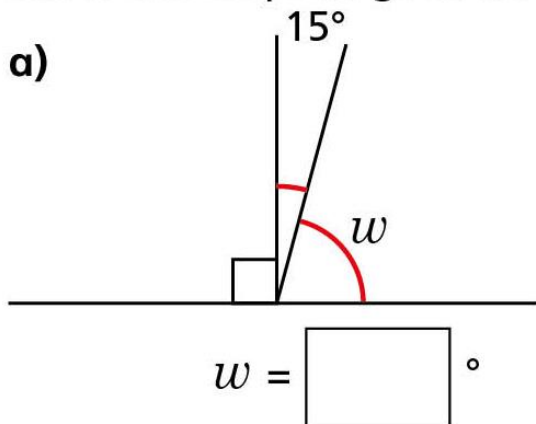


$$z = \boxed{}^\circ$$

Calculating Angles

Back to straight line angles...

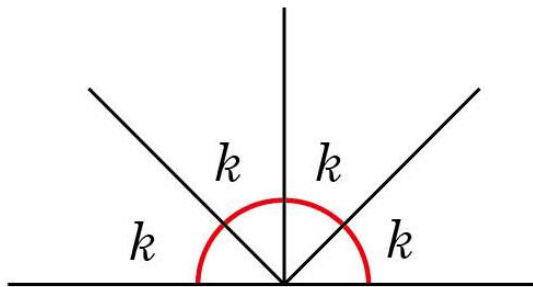
Show the steps in your working.



Calculating Angles

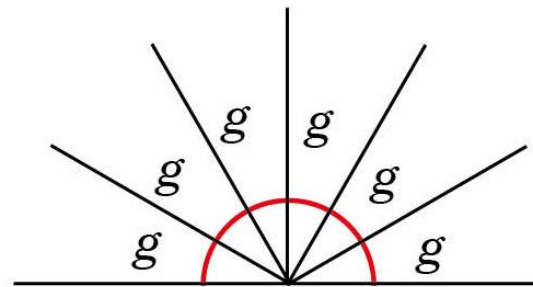
Calculating more straight line angles...

a)



$$k = \boxed{}^\circ$$

b)



$$30 = \boxed{}^\circ$$

Independent Activity: Turn to page 9 in your work pack to answer the questions

Calculate angles

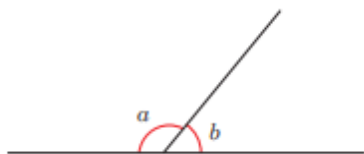
- 1 Two angles, a and b , are adjacent on a straight line.

a) Measure angles a and b .

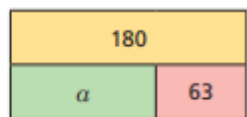
b) What is the total of the two angles?

c) Complete the sentence.

Adjacent angles on a straight line _____



- 2 a) Complete the fact family for the bar model.



$$a + 63 = \boxed{}$$

$$180 - \boxed{} = a$$

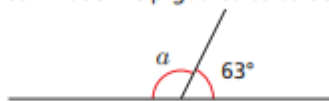
$$63 + \boxed{} = \boxed{}$$

$$180 - a = \boxed{}$$

b) Which calculation in part a) helps you work out the value of a ?

c) Work out the value of a .

d) How does the bar model help you to calculate angle a ?

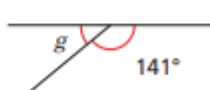


- 3 Work out the unknown angles.

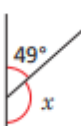
a)



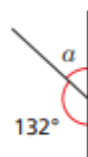
b)



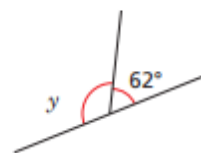
c)



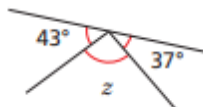
d)



e)



f)



4

Dora is facing in the direction shown by the arrow. She does a full turn clockwise.

a) Show Dora's turn.

b) How many degrees did Dora turn through?

c) Use your answer to part b) to help you complete the sentence.

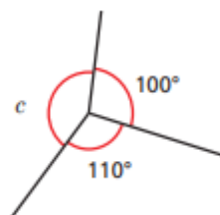
Angles around a point _____



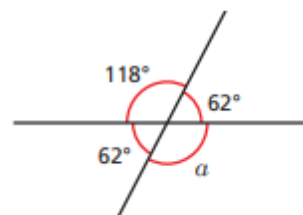
5

Work out the unknown angles.

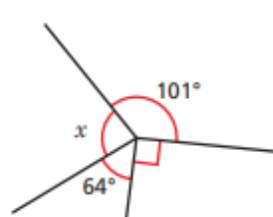
a)



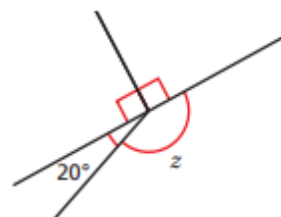
c)



b)

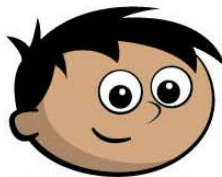


d)



Mastery Challenge: *Now grab a pen and paper and see if you can challenge your brain a little further...*

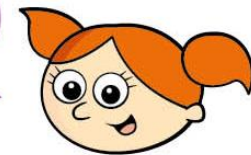
Ms Hall asks her class to draw an angle of 250 degrees.



Amir

My protractor only goes up to 180 degrees.

That's true. But I think we can still use it.



Alex

a) Explain why Alex is correct.