Year 5 Maths answer sheets

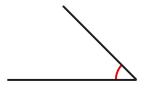
W/B 29/6/2020



Measuring with a protractor (2)

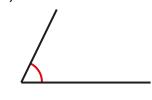
Circle the greater angle in each pair.

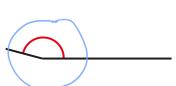






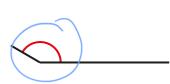
b)





c)



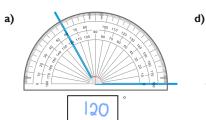


d)





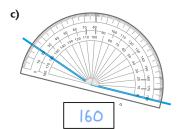
What is the size of the angle marked in each diagram?

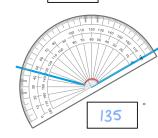
















f)



a) How do you know, just by looking at the angle, that it is not 30 degrees?

It is greater than 90°

b) What mistake do you think Annie has made?

She has read the wrong number as the protractor.

Y5 29/6/20 pg2

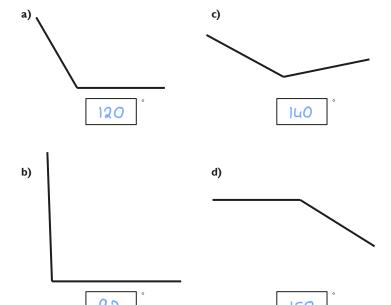
4 Scott is trying to measure the obtuse angle.



What mistake has Scott made?

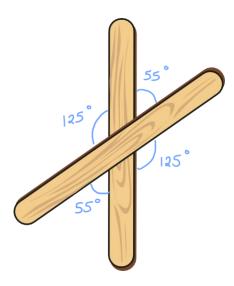
The protractor isn't lined up with one of the lines from
the angle so he isn't measuring from a

Measure each of the angles.



6 Eva puts one ice-lolly stick over another ice-lolly stick.





a) Estimate the size of the largest angle between the two ice-lolly sticks.

b) Measure the angle to check your estimate.

The actual measurement is 125 °.

- c) Measure the size of each of the angles formed by the ice-lolly sticks and label them on the diagram.
- d) Use ice-lolly sticks to create different sized angles and measure them.





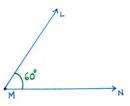
Y5 30/6/20 pg1



Drawing lines and angles accurately

Draw each of the angles accurately. Use the line provided as part of your angle.

a) 60 degrees



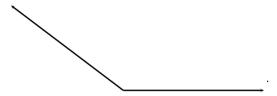
b) 85°



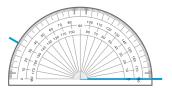
c) 110°



d) 143°



Dexter is asked to draw an angle of 30 degrees. He marks a point as shown.





What mistake has Dexter made?

Dexter has used the wrong scale. 30 degrees is an acute angle

so is less than 90 degrees. He should have used the inside scale.

Draw an angle of 100° on each line. Use the lines to form part of the angle.





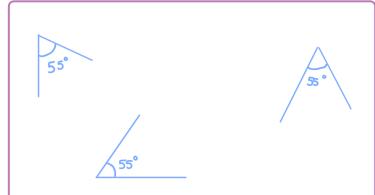


Y5 30/6/20 pg2

Draw three angles that all measure 55°.

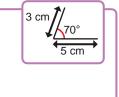
Each angle should be in a different orientation.





Draw these lines and angles accurately using a ruler and protractor.

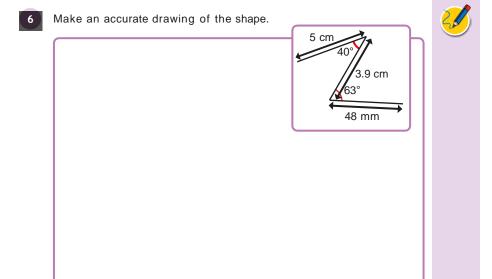








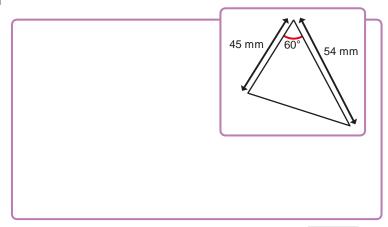




Draw the triangle accurately and work out its perimeter.







perimeter =

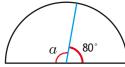


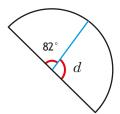


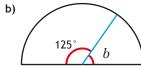
Calculating angles on a straight line

Work out the sizes of the unknown angles.

a)





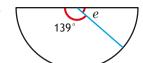




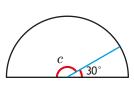
e)

f)

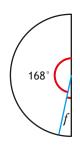
d)



c)



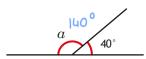




Work out the size of the unknown angles.

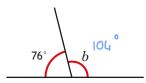
a)

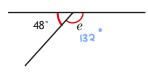
d)



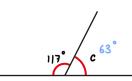


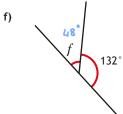
b)



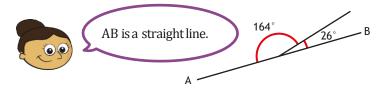


c)





Dora draws two angles.



Do you agree with Dora? No Explain your answer.

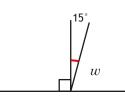


Y5 1/7/20 pg2

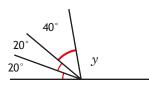
Work out the size of the unknown angles.

Show the steps in your working.

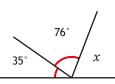
a)



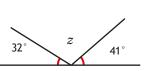
c)



b)

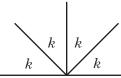


d)

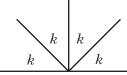


Work out the sizes of the unknown angles.

a)

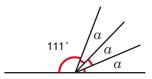


b)





Work out the size of angle a.

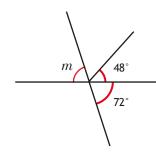


$$a = 23$$

Work out the size of angle m.

Show all your working out.





Two angles are marked.





Angle b is eight times the size of angle a.

What is the size of each angle?





Calculating angles around a point

1 Work out the sizes of the unknown angles.

a)



c,



$$a = \boxed{300}$$

b)



d)



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.

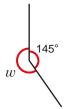
How many more degrees does he need to turn through?



250 °

Work out the size of the unknown angles.

a)







b)







4 Work out the sizes of the unknown angles.

a)

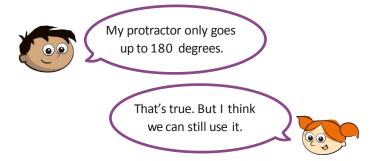


b)



Y5 2/7/20 pg2

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



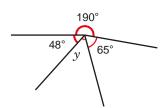
- a) Explain why Alex is correct.
- b) Draw an angle of 250 degrees.



Compare methods with a partner.



6 Work out the size of angle y.



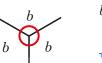
y = 57 °

7 Work out the sizes of the unknown angles.



Give reasons to support your answers.

a)



$$b = 120^{\circ}$$
 because angles around

a point sum to 360° and 360+3-120

b)



$$c = L_13$$
 • because angles round a point

sum to 360° 360-231=129 and 129÷3=43

8 A circle is divided into ten equal sections.





What is the size of the angle marked g?

