

MathShed

Year 5
Summer Block 2: Properties of Shape

Lesson 5: To be able to calculate angles on a straight line

Term: Summer Unit: Block 2 – Properties of Shape Lesson: 5

To be able to calculate angles on a straight line

Starter:
Looking at the measurements given below, what's the same? What's different?

180 degrees **90 degrees** **360 degrees**

Explain your answer.

To be able to calculate angles on a straight line

Activity 1:
Calculate the values of the missing angles.

120° / 7° 7° / 83° 113° / 7°

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Activity 2:
Calculate the value of the missing angle.

90° / 7° / 65° 37° / 7° / 62° 7° / 117° / 42°

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Activity 3:
If each letter's angle is equal, what is the value of each letter?

x / x / x / x y / y / y / y z / z / z / z / z / z

Explain your answer.

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Activity 4:
Calculate the value of g .

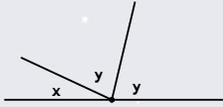
24° / g / g / g / g

To be able to calculate angles on a straight line



Activity 5:

If angle x is a prime number between 20 and 30, what are the possible values for x and y ?



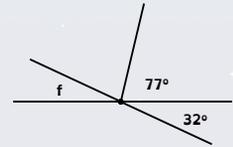
Explain your answer.

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Activity 6:

What is the value of f ?



Explain your answer.

To be able to calculate angles on a straight line



Evaluation:

If y is five times greater than x , then y is worth 160 degrees.



Do you agree?

Explain your answer in full.