



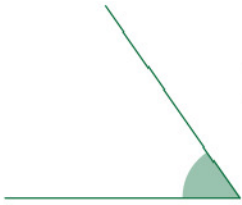
SUMMIT EDUCATION

Mathematics

Worksheet

Q1

What type of angle is this?



acute right obtuse straight reflex

Q2

What type of angle is this?



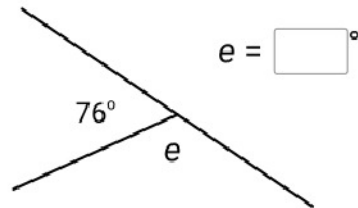
acute right obtuse straight reflex

Q3

What type of angle is this?

Q5

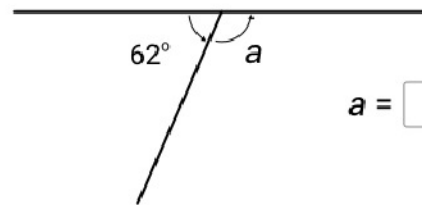
Find the value of e .



$e =$ $^{\circ}$

Q6

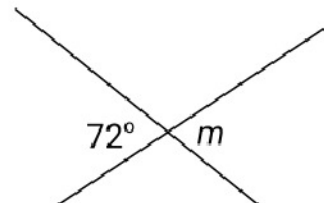
Find the value of a .



$a =$ $^{\circ}$

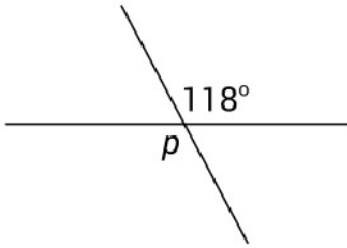
Q7

Find the value of m . $^{\circ}$



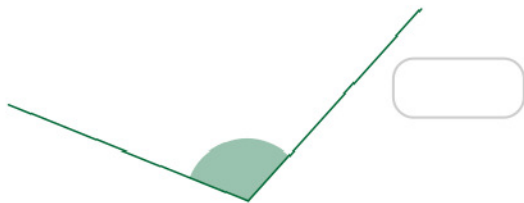
Q9

Find the value of p . °



Q10

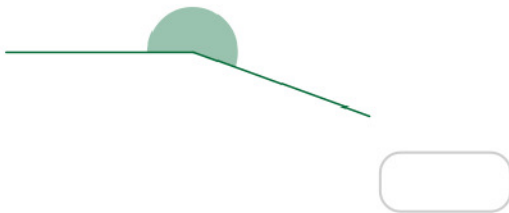
What type of angle is this?



acute right obtuse straight reflex

Q11

What type of angle is this?



Q13

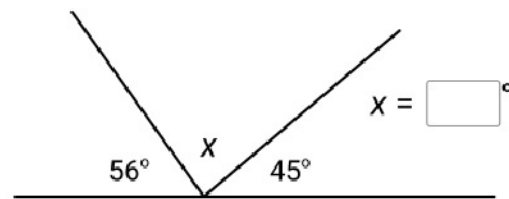
What type of angle is this?



acute right obtuse straight reflex

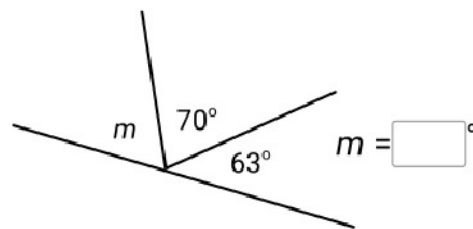
Q14

Find the value of x .



Q15

Find the value of m .

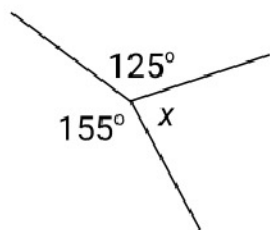


Q16



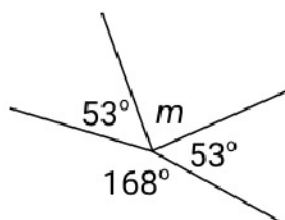
Q18

Find the value of x . °



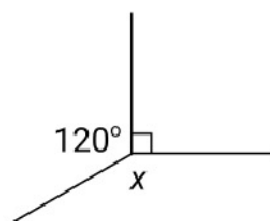
Q19

Find the value of m . °



Q20

Find the value of x . °

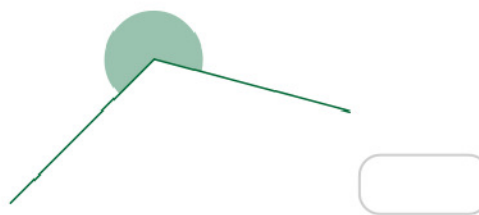


Q21

°

Q23

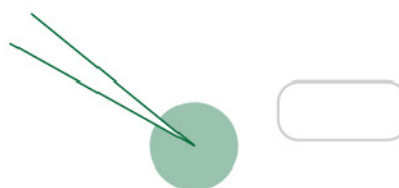
What type of angle is this?



acute right obtuse straight reflex

Q24

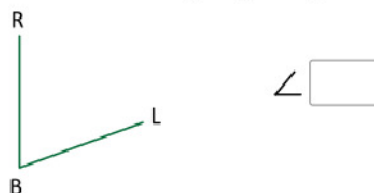
What type of angle is this?



acute right obtuse straight reflex

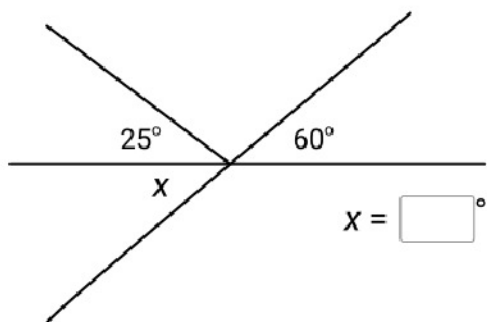
Q25

Name the angle (using letters) below.



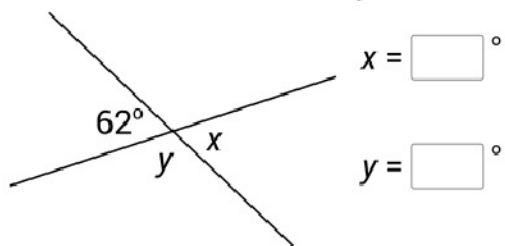
Q28

Find the value of x .



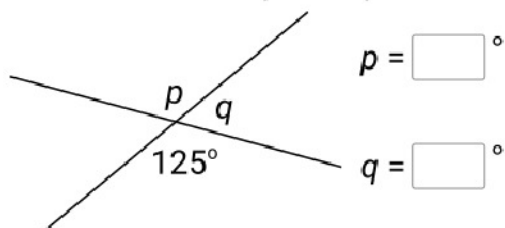
Q29

Find the value of x and y .



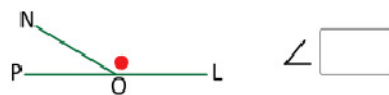
Q30

Find the value of p and q .



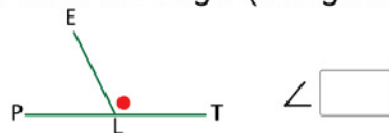
Q33

Name the angle (using letters) below.



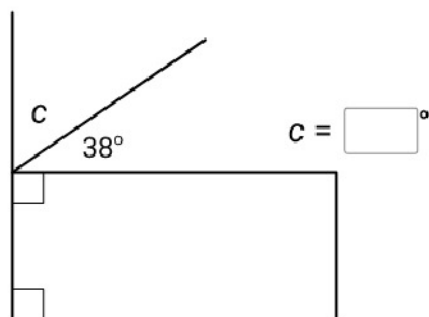
Q34

Name the angle (using letters) below.



Q35

Find the value of c .



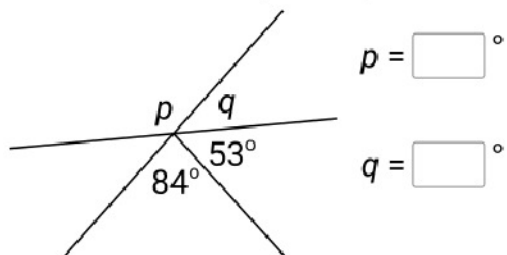
Q36

Find the value of x .



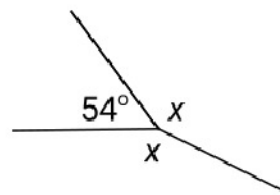
Q38

Find the value of p and q .



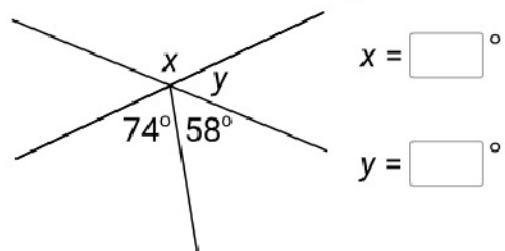
Q39

Find the value of x . °



Q40

Find the value of x and y .



y6math1 Hard

15 Difficult Worded Problems

Show all working out in the space provided.

Name: _____ Date: _____ Score: ____ / 15

Question 1:

Jamal draws an angle and measures it at 116° . What type of angle is it? Its supplementary angle is x° . Find x and state what type of angle the supplementary angle is.

Working out:

Question 2:

A clock shows 3:45. What is the angle between the hour hand and the minute hand? Explain whether this angle is acute, obtuse, or reflex.

Working out:

Question 3:

At a point, three angles meet: 47° , 88° , and m° . The total around the point is 360° . Find m° and classify all three angles by type.



Question 5:

A right angle is divided into two angles by a ray. One angle is 36° . The other is y° . Find y . If the smaller angle is doubled, is the pair still complementary? Explain.

Working out:

Question 6:

Sofia constructs an angle labelled RST using the letter R, S, T. If angle RST = 74° and angle TSV = 29° lie on a straight line R-S-V, find angle VSR.

Working out:

Question 7:

An angle measures 168° . State its type. Find its reflex angle and its supplementary angle. What is the difference between the reflex angle and the supplementary angle?

Working out:



Question 9:

Ben says: 'A reflex angle is bigger than a straight angle but smaller than a revolution.' Give two example measures that are reflex angles, and state their supplementary angles.

Working out:

Question 10:

At a point, four angles measure $5x$, $3x$, $2x$, and $2x$ degrees, and they total 360° . Find x and the size of each angle. Classify the largest angle by type.

Working out:

Question 11:

A triangle has one angle of 43° . The other two are equal. Find their sizes and name the triangle's angle type. If one equal angle is increased by 17° , find the new third angle.

Working out:



Question 13:

An angle measures 144° and its supplement is 36° . How many times larger is the 144° angle than its supplement? What type of angle is the 144° angle? If the 144° angle is increased by 25%, find the new supplement.

Working out:

Question 14:

Lily looks at an angle of 5° and says it is acute. What is its reflex angle? How many 5° angles fit into one full revolution of 360° ?

Working out:

Question 15:

A diagram shows two vertically opposite pairs. One angle is $8z - 20$ and the opposite angle is $2z + 40$. Find z and the size of all four angles, then classify each type.

Working out:

