

There are two lessons covered today. Both are about comparing angles. The first lesson focuses on acute angles, the second on obtuse angles.

Lesson 5

Comparing Angles

In Focus

MATHS

In which letters are there right angles?

Check using your right-angle tester.



Let's Learn

1 Are there right angles in T ?



There are 2 right angles in T.

Which other letters have several right angles?



2 Are there right angles in H ?



There are 4 right angles in H.

Can you rewrite M so that it has a right angle?



3 Are there right angles in M ?



Angles a, b and c are less than a right angle.

We call these acute angles.

An acute angle is smaller than a right angle.

Use a ruler and pencil.



- 4 Are there acute angles in **A**?



These angles are smaller than a right angle.
These are acute angles.

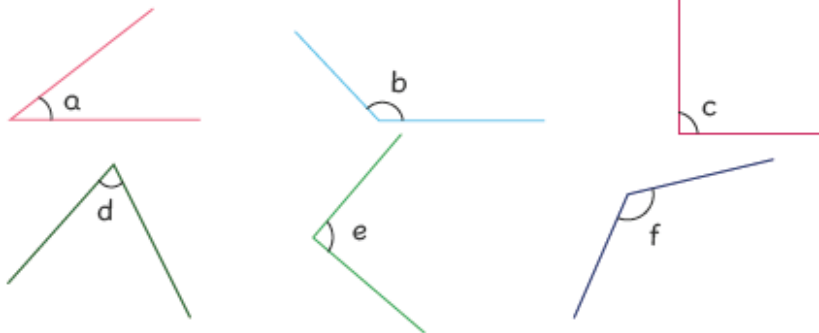
- 5 Are there acute angles in **S**?

No, angles are made when straight lines meet.

Guided Practice

- 1 Draw an acute angle.

- 2 Which of these are right angles?
Use your right-angle tester or the corner of a ruler to find out.



- 3 Which angles in the shapes are right angles and which are acute angles?



REMEMBER WE ALWAYS USE A RULER WHEN WE ARE DOING MATHEMATICAL DRAWING. IT IS IMPORTANT TO BE ACCURATE. USE A SHARP PENCIL.

Comparing Angles

Lesson 6

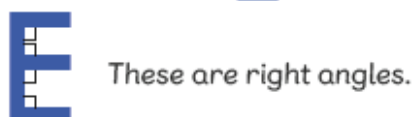
In Focus

ENGLAND

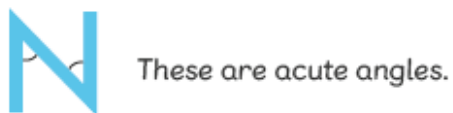
Are there angles that are larger than a right angle in the letters?

Let's Learn

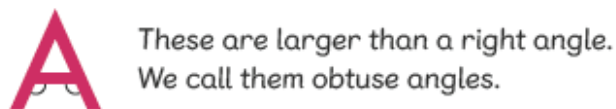
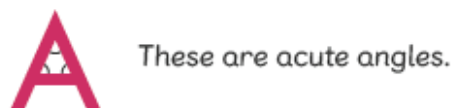
- 1 Are the angles in **E** right angles?



- 2 Are the angles in **N** right angles?



- 3 Are the angles in **A** right angles?



An acute angle
is smaller than
a right angle.



Obtuse angles are
larger than 90° .



AS WE ARE DOING TWO LESSONS TODAY, THIS ACTIVITY TIME IS OPTIONAL.

Activity Time

Work in pairs.



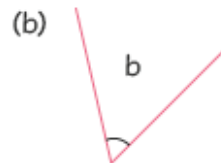
- 1 Take two strips of cardboard of the same length.
- 2 Join the two strips at one end with a fastener to make your own angle strips.



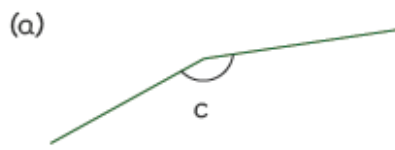
- 3 Take turns to make different angles.
- 4 Get your partner to say whether each angle is an acute angle, an obtuse angle or a right angle. Use a right-angle tester to check your partner's answers.

Guided Practice

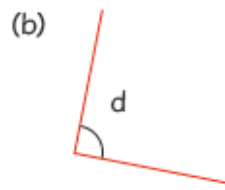
- 1 Draw an obtuse angle.
- 2 Is each angle smaller than or larger than a right angle?



3 Name the acute angles, the obtuse angles and the right angles.



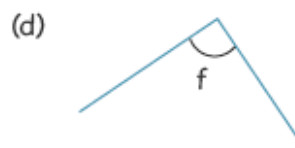
angle



angle



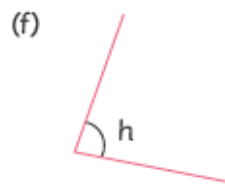
angle



angle



angle



angle

- 4 Find a right angle, an acute angle and an obtuse angle.



- 5 Are there obtuse angles in any of these letters?



- 6 Look at the angles in the shape.



Use your right-angle tester to help you.



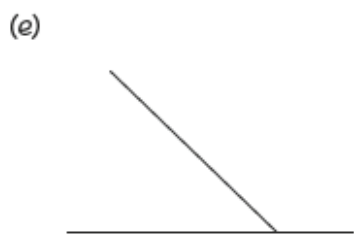
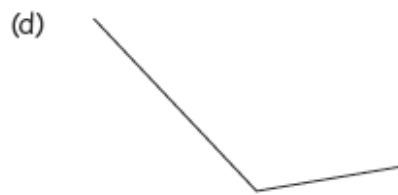
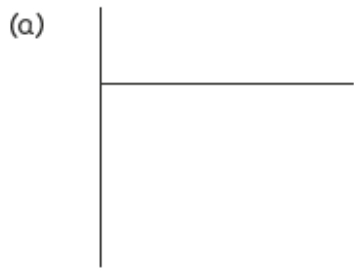
Which angles are right angles, acute angles and obtuse angles? Explain your answers.

Name: _____ Class: _____ Date: _____

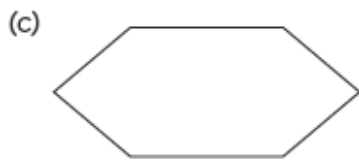
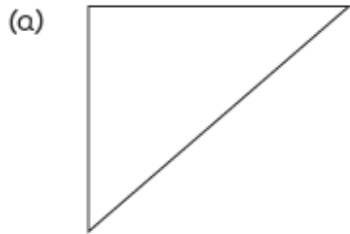
Worksheet 5

Comparing Angles

- 1 Each figure below is made up of two lines.
Circle the figures that make an acute angle.



- 2** Mark all the acute angles in the shapes below and then write down how many you found.

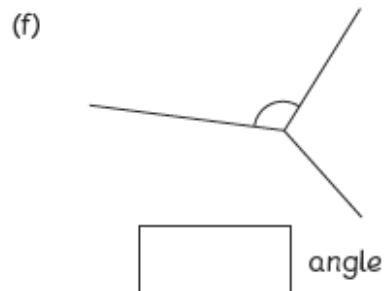
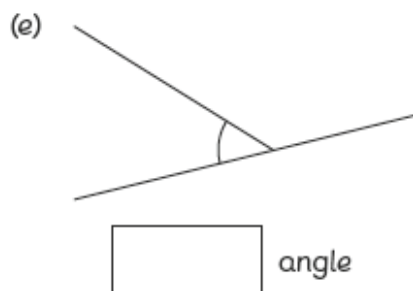
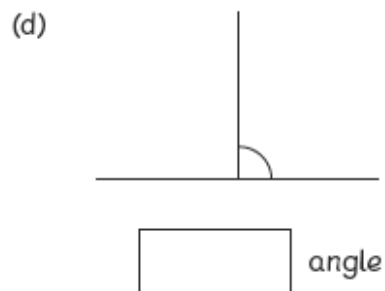
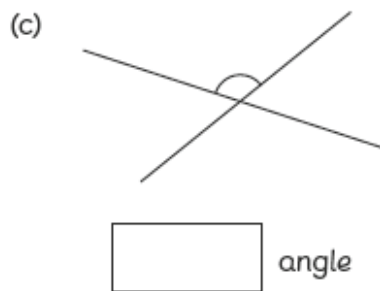
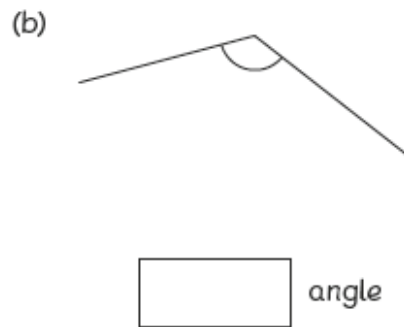
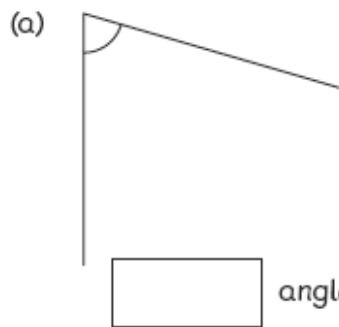


Name: _____ Class: _____ Date: _____

Worksheet 6

Comparing Angles

- 1 State whether the angle shown in each figure is an acute angle, a right angle or an obtuse angle.



- 2 Look at the letters shown below and write down the correct letters in the table.

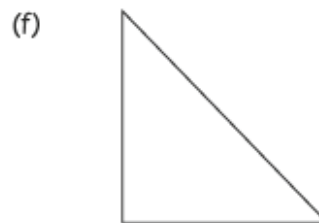
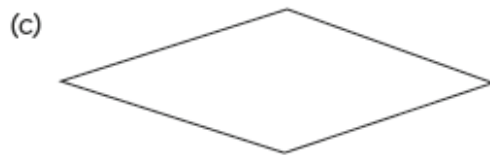
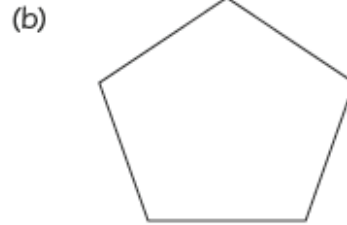
A C V Y

F E H X

K Z N W

No angle	No obtuse angle	1 obtuse angle	2 obtuse angles

3 Mark all the obtuse angles in the shapes below and then write down how many you found.



- 4 The figure below shows a right angle.



- (a) Draw two lines to make an angle smaller than the right angle shown above. Mark the angle.



The angle shown above is an angle.

- (b) Draw two lines to make an angle larger than the right angle shown above. Mark the angle.



The angle shown above is an angle.



- 4 Are there acute angles in **A**?



These angles are smaller than a right angle.
These are acute angles.

- 5 Are there acute angles in **S**?

No, angles are made when straight lines meet.

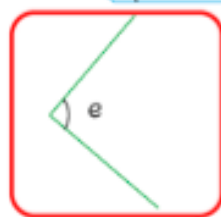
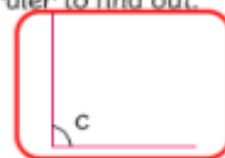
Guided Practice

- 1 Draw an acute angle.

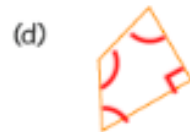
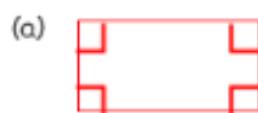


- 2 Which of these are right angles?

Use your right-angle tester or the corner of a ruler to find out.



- 3 Which angles in the shapes are right angles and which are acute angles?

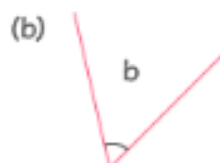


Guided Practice

- 1 Draw an obtuse angle.
- 2 Is each angle smaller than or larger than a right angle?



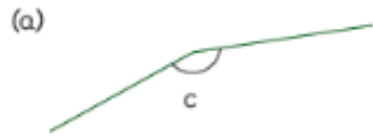
Larger



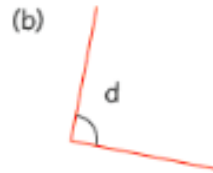
Smaller



3 Name the acute angles, the obtuse angles and the right angles.



Obtuse angle



Right angle



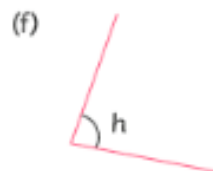
Acute angle



Right angle



Obtuse angle



Acute angle





4 Find a right angle, an acute angle and an obtuse angle.



Right



Acute



Obtuse

5 Are there obtuse angles in any of these letters?



Yes



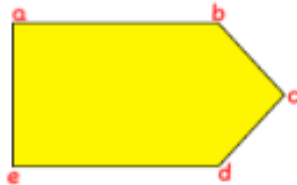
Yes



No



6 Look at the angles in the shape.



Use your right-angle tester to help you.



Which angles are right angles, acute angles and obtuse angles? Explain your answers.

a and e: Right angles because they fit the right-angle tester perfectly.

b and d: Obtuse angles because they are larger than the right-angle tester.

c: Acute angle because it is smaller than the right-angle tester.

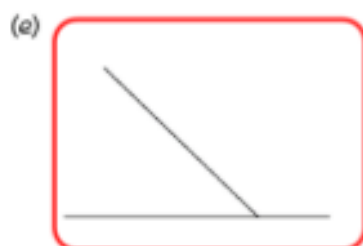
Name: _____ Class: _____ Date: _____



Worksheet 5

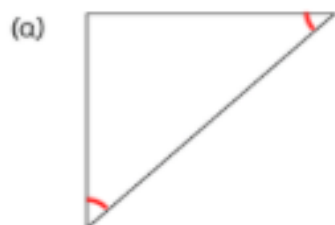
Comparing Angles

- 1 Each figure below is made up of two lines.
Circle the figures that make an acute angle.





- 2 Mark all the acute angles in the shapes below and then write down how many you found.



2



0



2



2



3



1

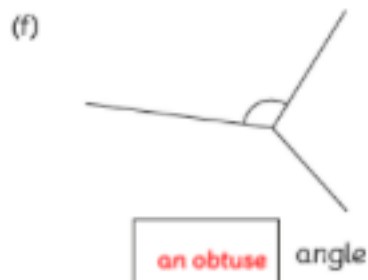
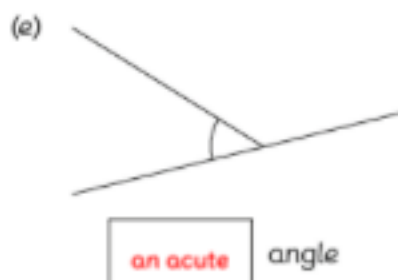
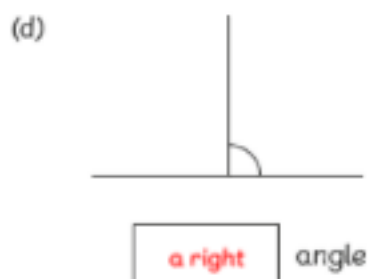
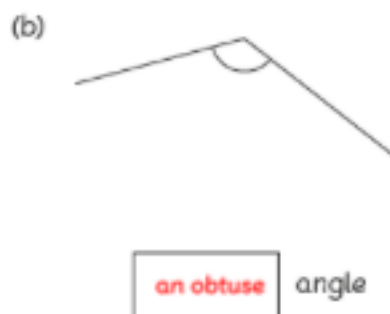
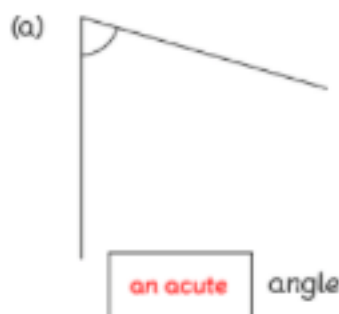
Name: _____ Class: _____ Date: _____



Worksheet 6

Comparing Angles

- 1 State whether the angle shown in each figure is an acute angle, a right angle or an obtuse angle.





Answers

2 Look at the letters shown below and write down the correct letters in the table.



A C V Y

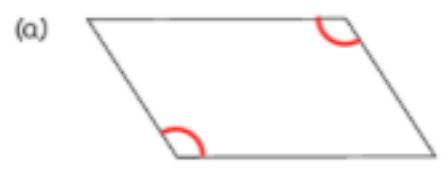
F E H X

K Z N W

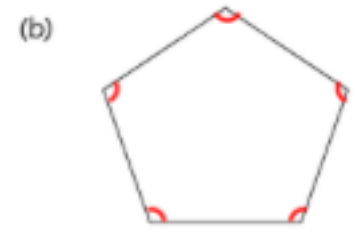
No angle	No obtuse angle	1 obtuse angle	2 obtuse angles
C	V F E H Z N W	Y	A X K



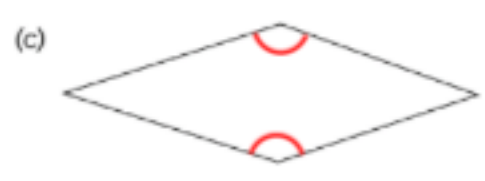
3 Mark all the obtuse angles in the shapes below and then write down how many you found.



2



5



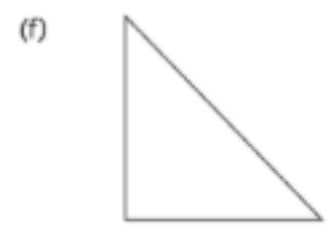
2



1



2



0



- 4 The figure below shows a right angle.

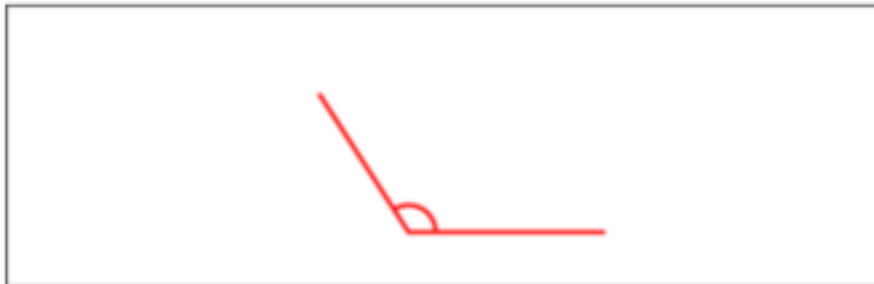


- (a) Draw two lines to make an angle smaller than the right angle shown above. Mark the angle.



The angle shown above is an angle.

- (b) Draw two lines to make an angle larger than the right angle shown above. Mark the angle.



The angle shown above is an angle.