

Worksheet

Answer the questions on this worksheet in the boxes next to the challenge questions.

Remember:

The tasks are arranged in 3 challenges that get progressively more difficult.

- Challenge 1 is a “mild” challenge, if you are not confident
- Challenge 2 is “spicy”, a little bit more challenging, if you are feeling confident and find the first challenge too easy.
- Challenge 3 is “hot”. The questions are designed to challenge you and can be tricky.

You can choose to do just one challenge or more than one, it is up to you. As a guide, if you are consistently getting everything correct, you should move up a challenge. If you are struggling on every question; move down a challenge.

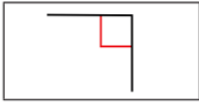
Challenge 1:

Question	Answer
<p>I Complete the sentences. Use the word bank to help you.</p> <p>90 180 greater less</p> <p>a) A right angle is <input type="text"/> degrees.</p> <p>b) An acute angle is _____ than <input type="text"/> degrees.</p> <p>c) An obtuse angle is _____ than <input type="text"/> degrees but less than <input type="text"/> degrees.</p>	

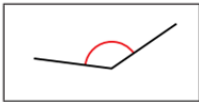
2 Match the angles to the labels.



right angle



acute angle



obtuse angle

3. Are the following angles; obtuse, acute or right angles?

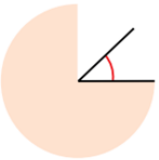
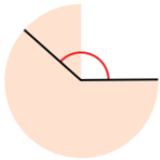
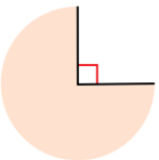


a) 35° _____

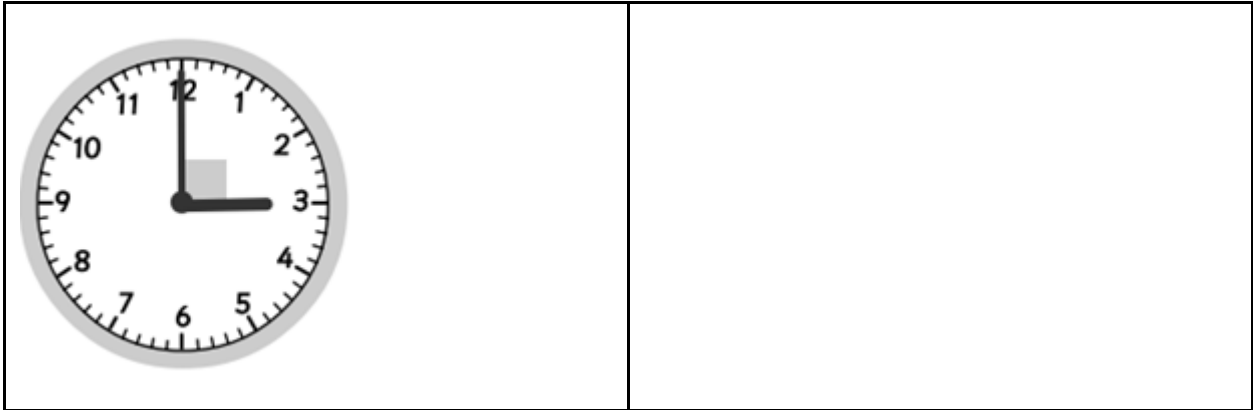
b) 99° _____

c) 90° _____

How do you know?

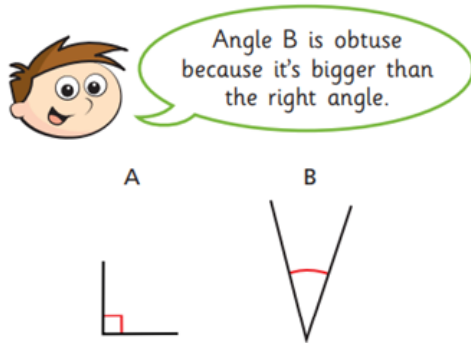
Challenge 2:

Question	Answer
<p>1.</p> <p>Label the angles: acute, obtuse or right angle.</p> <p>a)  d) </p> <p>_____</p> <p>b)  e) </p> <p>_____</p>	
<p>2.</p> <p>Is the angle acute, obtuse or a right angle?</p> <p>a) 35° _____ d) 89° _____</p> <p>b) 99° _____ e) 121° _____</p> <p>c) 90° _____ f) 179° _____</p> <p>How do you know?</p>	
<p>3.</p> <p>What kind of angle is shown by the clock hands?</p> <p>(a)</p>  <p>(b)</p>	



Challenge 3:

1.



Do you agree with Teddy? _____

Explain your answer.

2.

Find the sum of the largest acute angle and the smallest obtuse angle in this list:

12° 98° 87° 179° 90° 5°

3.

True or False?

If two angles are drawn on a straight line, only one angle can be acute.



4.

Are the statements always true, sometimes true or never true?
Explain your answer.

a) An obtuse angle is a greater turn than an acute angle.

b) An acute angle is a greater turn than a right angle turn.

c) If you turn through two acute angles you will have turned through an obtuse angle.
