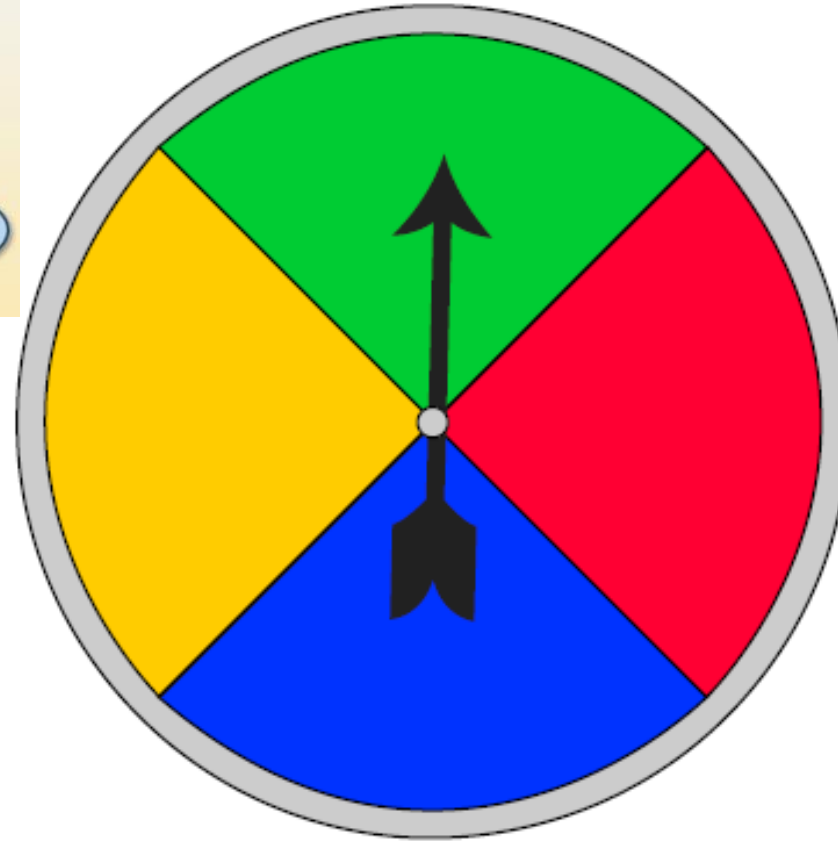Understand angles as an amount of turn and right angles as quarter turns.

This is a quarter of the clock face.

What is the angle between the lines?

It's a **right angle**; **90 degrees; 90°.**

To begin with, the arrow points to the top.
Write what colour the arrow will be on after each spin.

1. $\frac{1}{4}$ spin clockwise.

2. $\frac{1}{4}$ spin anticlockwise.

3. $\frac{1}{2}$ spin clockwise.

4. Two quarter turns clockwise.

5. Three quarter turns clockwise.

6. Three quarter turns anticlockwise.

7. One right angle turn anticlockwise.

8. Four right angle turns clockwise.

9. A 90 degree turn clockwise.
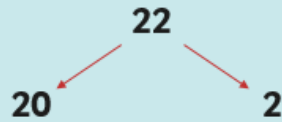
10. A 180 degree turn clockwise.

Main

LO: to use written multiplication methods

Look at the problem.

22 x 4 = ?

Partition the large number into tens and ones.

22

20   **2**

Draw a grid.

x	20	2
4		

After you have solved the calculations add the two answers together.

This gives you the answer to the problem.

x	20		2	
4	80	+	8	= 88

20 x 4 = 80

2 x 4 = 8

80 + 8 = 88

22 x 4 = 88

4. 19 x 4 = _____

x	10	9
4		

5. 16 x 3 = _____

x		

6. Now draw your own grids to solve these problems:

a. 13 x 8   b. 20 x 8

c. 24 x 4   d. 30 x 8

e. 18 x 4   f. 21 x 4