

Have a go at these arithmetic calculations.

1. = 80 000 + 9014

2. 1005 - 100 =

3. $\frac{1}{5} \times \frac{1}{8} =$

4. 3993 ÷ 6 =

Complete as many of these as you can in 3 minutes:

1

$42 \times 4 =$

1 mark

2

$\frac{5}{6} + \frac{3}{12} =$

1 mark

3. Rewrite the fractions in **ascending** order.

$\frac{3}{10}$ $\frac{2}{100}$ $\frac{4}{5}$ $\frac{7}{20}$



Lesson 33

Learning Question:

Can I revise my understanding of position and direction?

Success Criteria:

- Recognise positions and directions
- Use the eight compass directions N, S, E, W, NE, NW, SE, SW.
- Make and measure clockwise and anti-clockwise turns.

Vocabulary

Horizontal

Vertical

Compass

Direction

North

South

East

West

Clockwise

Anti-clockwise

Whole turn

Quarter turn

Half turn

Right angle

What do we mean by a horizontal line or a vertical line?



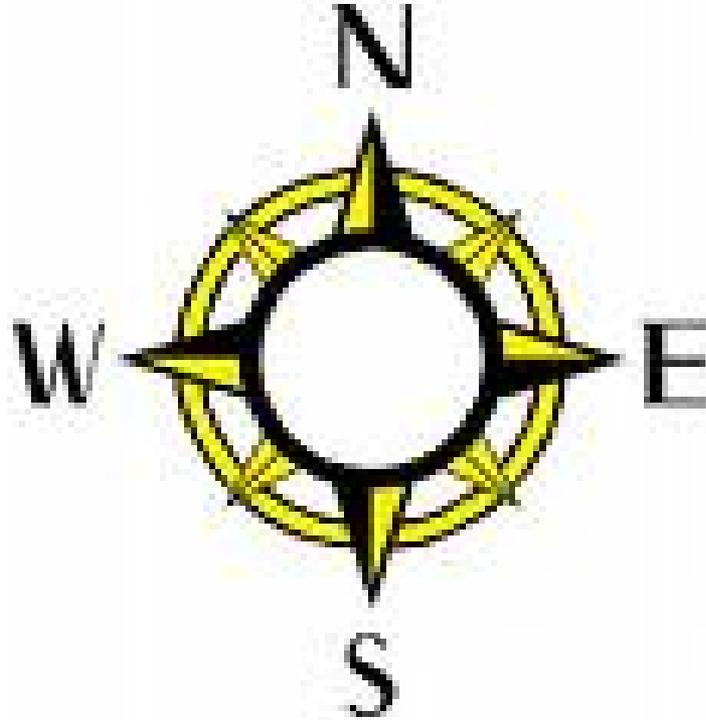
This line is vertical



This line is horizontal

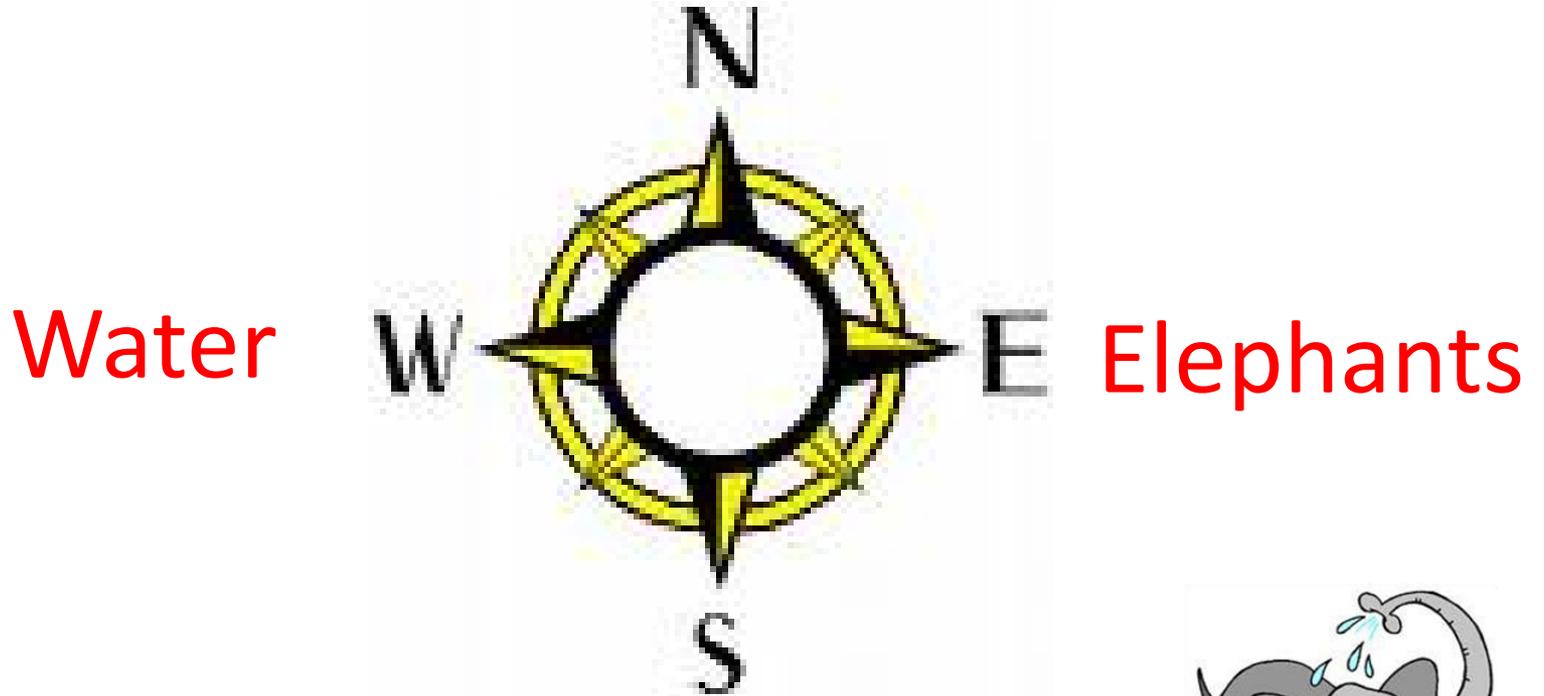
*Can you see any horizontal or vertical lines
in the room you are in? Where?*

When giving directions, we often use compass directions.



Can you think of an easy way to remember the position and order of the directions?

Naughty



Squirt



Naughty Elephants Squirt Water!

If you can, label the walls of the room you are in
N, S, E and W (you don't have to actually put
labels on the walls!)

- Stand facing north
- Turn to face east, south and then west.
- Did you turn clockwise or anti-clockwise?

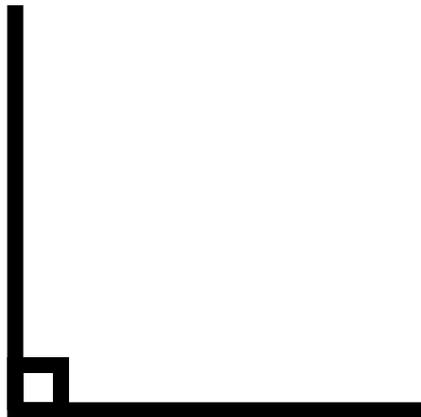
**Remember that a clockwise turn is to
the right like the hands of a clock.**



You should have turned clockwise.

- Stand facing North again.
- Make a quarter turn to face West.
- Did you turn clockwise or anti-clockwise?

Remember that a quarter turn is a *right-angled turn*.

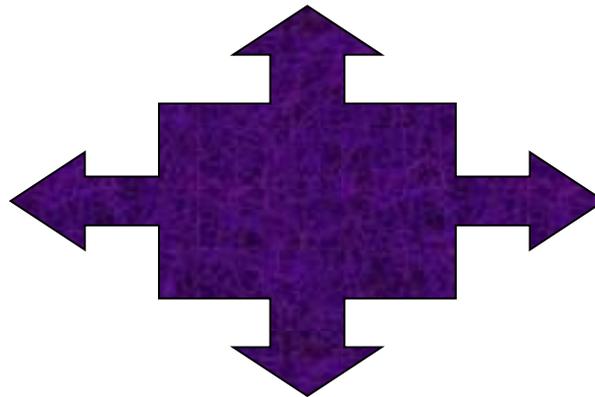


You should have turned anti-clockwise.

Stand facing North again.

Make a half turn clockwise.

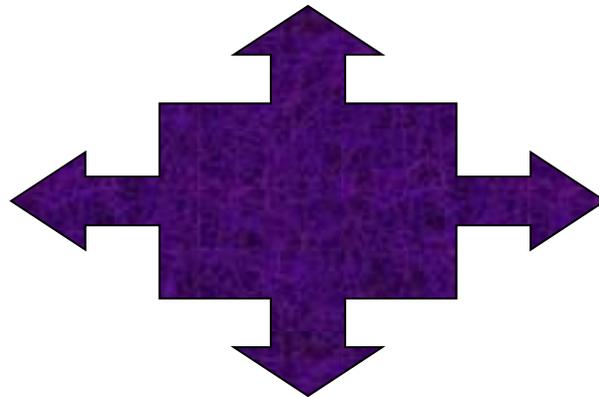
Which direction are you facing?



You should be facing South.

Turn to face West.

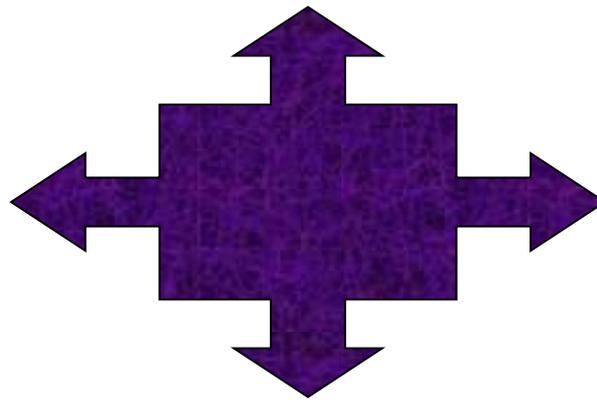
What sort of turn did you make?



You should have made a quarter turn.

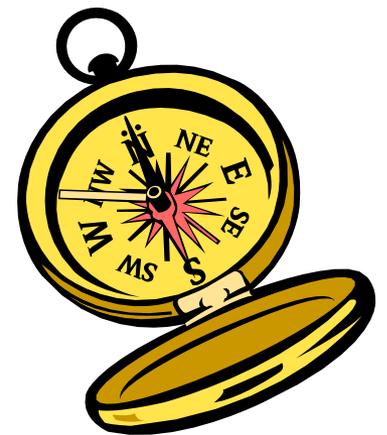
Face North and turn clockwise through half a right angle.

Which direction are you facing now?



You should be facing North-east
(halfway between North and East).

What is half-way between north and west?



North-west

What is halfway between East and South?



South-east

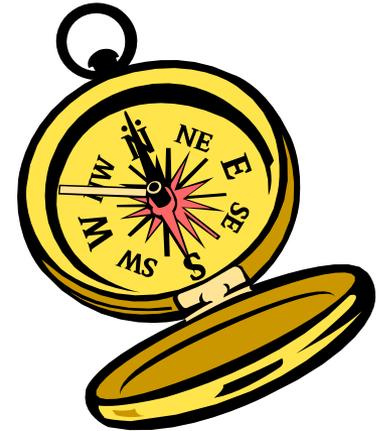
What is halfway between South and West?



South-west

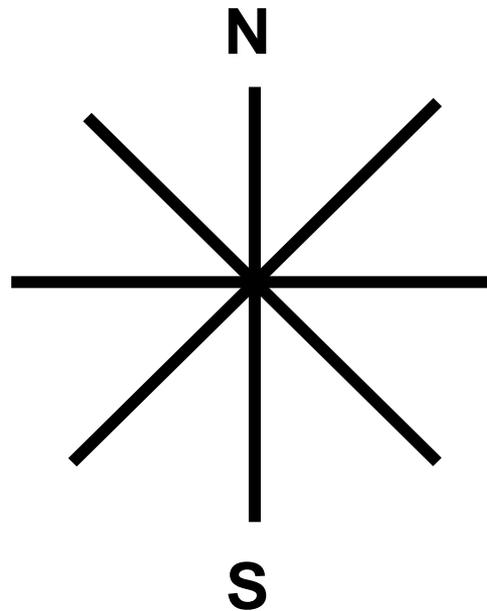
Stand facing South-west. Turn anti-clockwise through two-right angles.

In which direction are you facing now?

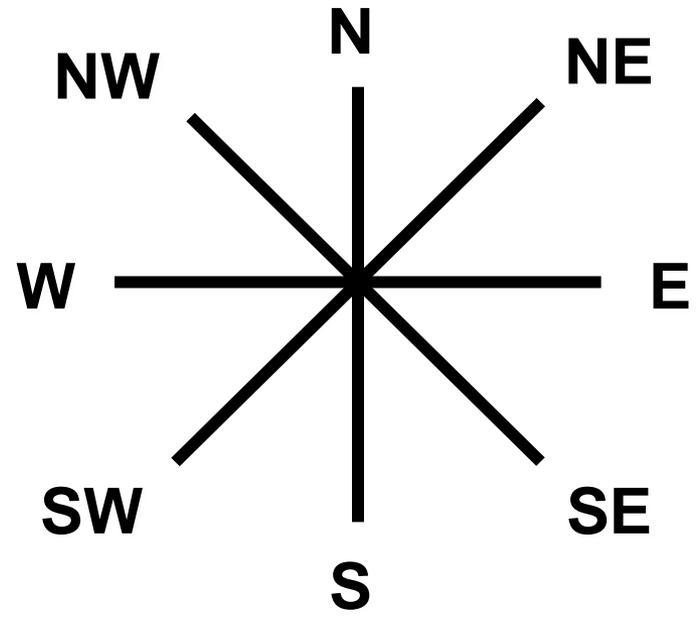


You should be facing North-east

Copy and complete the compass in your books.



Completed compass on next page



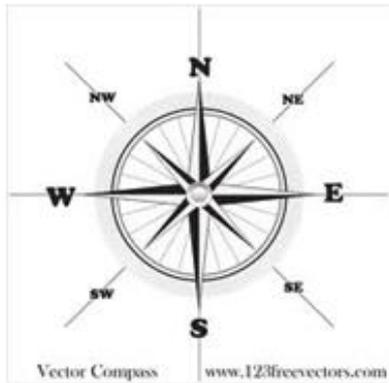
Your task:

- Create a map with landmarks on it
- Choose a starting point and mark an 'X' there.
- Give directions to different landmarks from point 'X' using a range of directional vocabulary:

Straight vertical line, straight horizontal line, left, right, turn clockwise, turn anti-clockwise, make a right-angled turn, face North, South, East, West, turn in NE, NW, SE, SW direction.

Don't forget, you can send your completed map to your teacher.

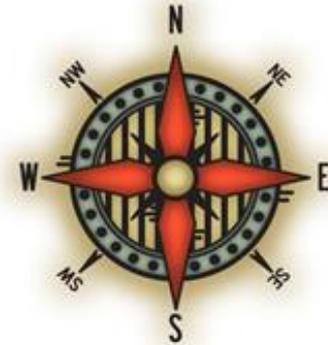
Plenary:



1. The arrow is facing South and is moved a three-quarter turn anti-clockwise. Which direction is it pointing now?



2. The arrow is facing North- West and is moved half a turn clockwise. Which direction is it pointing now?



3. The arrow is facing South-West and is moved a quarter turn anti-clockwise. Which direction is it pointing now?