

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?



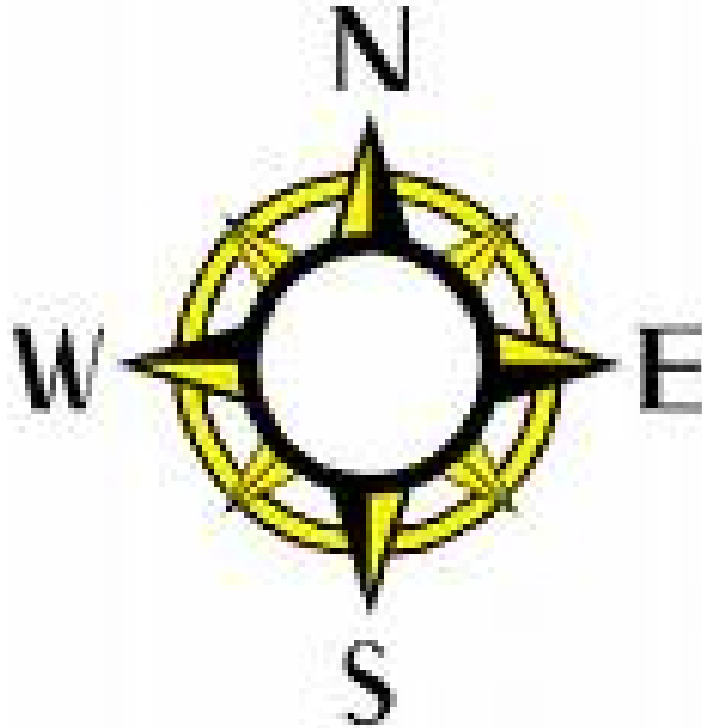
This line is vertical



This line is horizontal

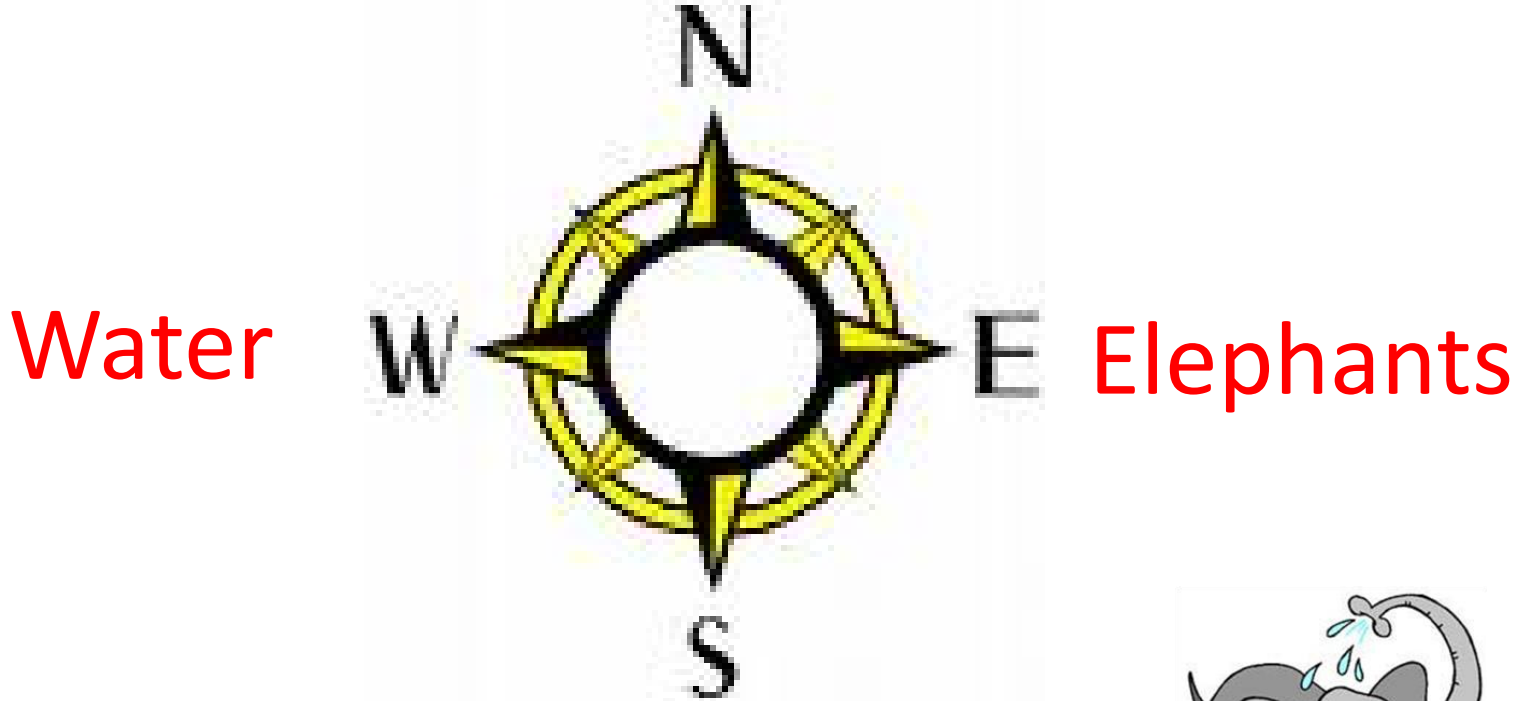
*Can you see any horizontal or vertical lines
in the room you are in? Where?*

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



Water

W

N

E

Elephants

S

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?

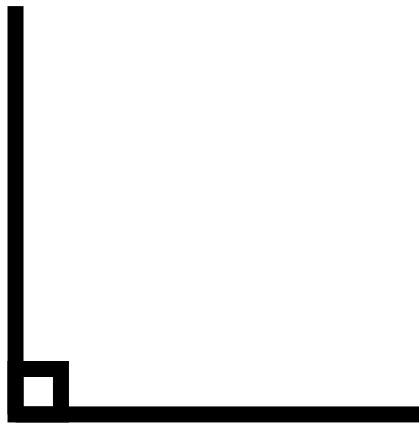
**Remember that a clockwise turn is to
the right like the hands of a clock.**



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*.

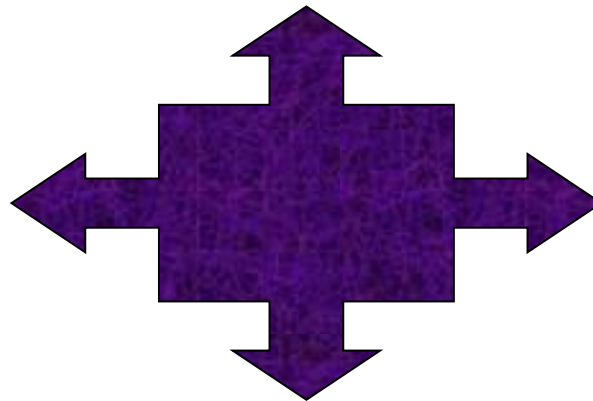


You should have turned anti-clockwise.

Stand facing North again.

Make a half turn clockwise.

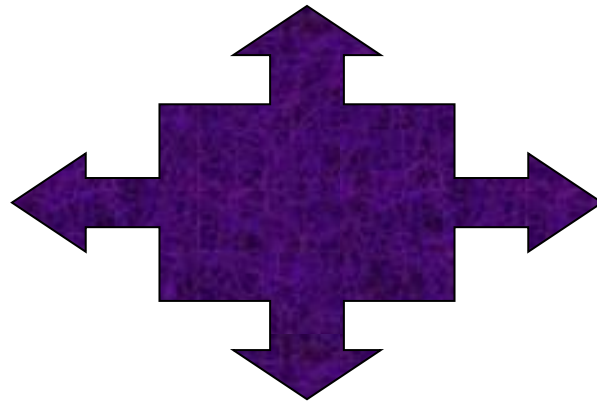
Which direction are you facing?



You should be facing South.

Turn to face West.

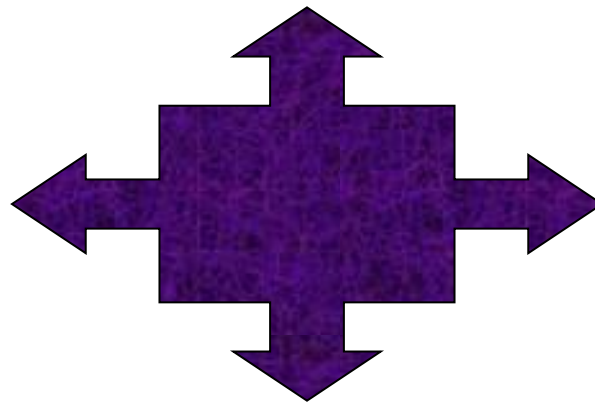
What sort of turn did you make?



You should have made a quarter turn.

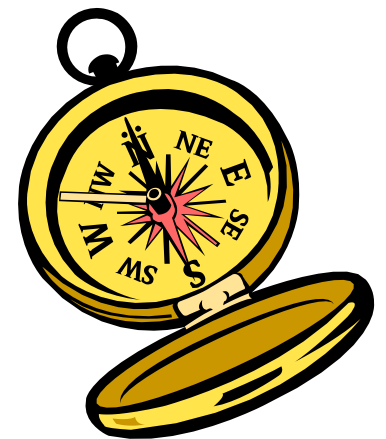
Face North and turn clockwise through half a right angle.

Which direction are you facing now?



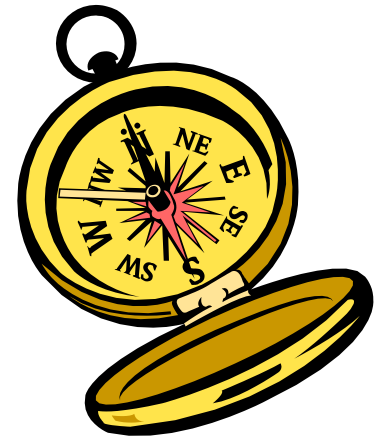
You should be facing North-east
(halfway between North and East).

What is half-way between north and west?



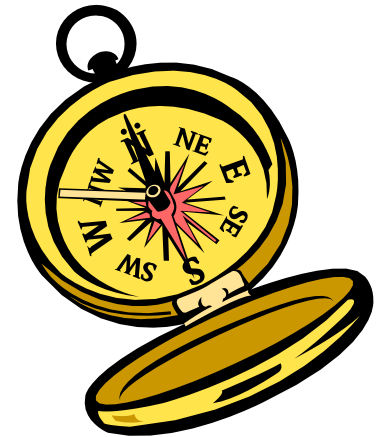
North-west

What is halfway between East and South?



South-east

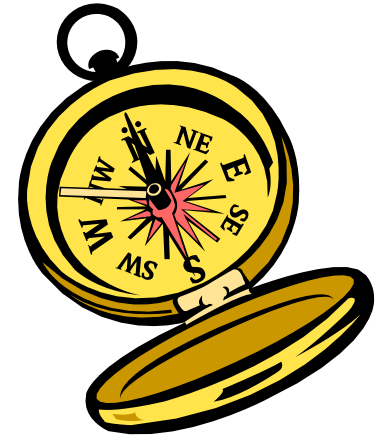
What is halfway between South and West?



South-west

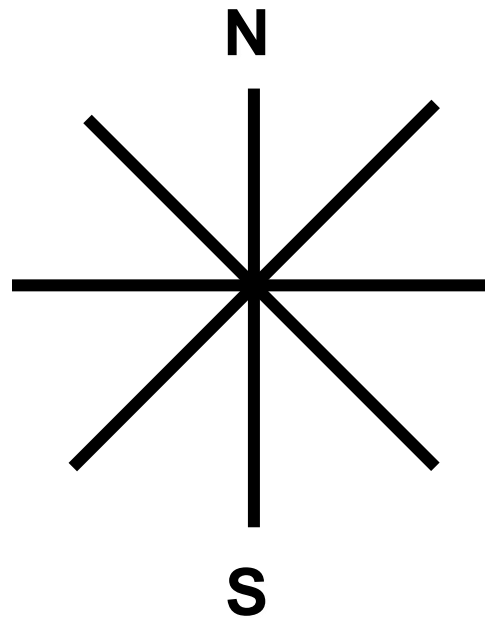
Stand facing South-west. Turn anti-clockwise through two-right angles.

In which direction are you facing now?

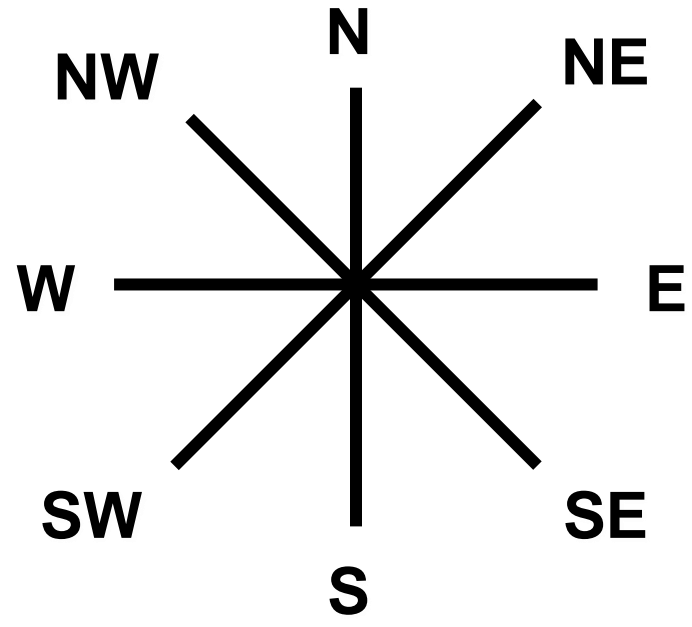


You should be facing North-east

Copy and complete the compass in your books.



Completed compass on next page



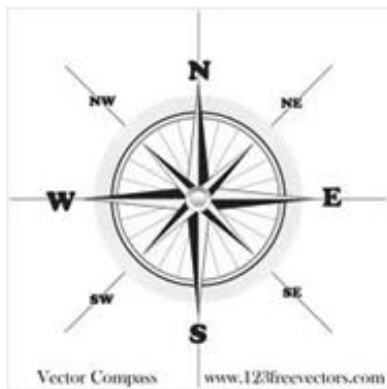
Your task:

- 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:

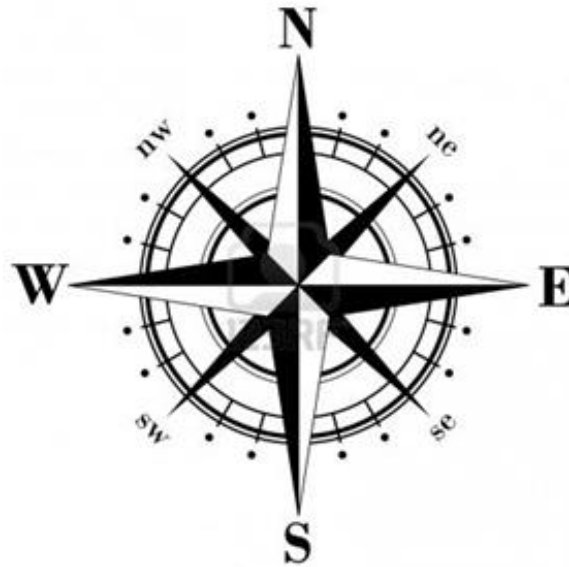
Straight vertical line, straight horizontal line, left, right, turn clockwise, turn anti-clockwise, make a right-angled turn, face North, South, East, West, turn in NE, NW, SE, SW direction.

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?