

Test 3 Revision

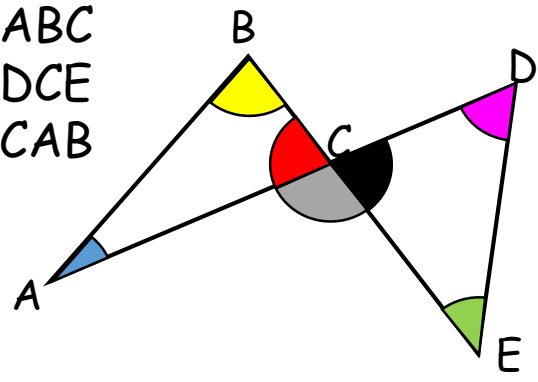
YEAR 8 HIGHER

Topic 9	Convert these decimals in to percentages	Convert these fractions into percentages	Convert these percentages into fractions
	a) 0.75	a) $\frac{1}{2}$	a) 25%
	b) 0.2	b) $\frac{3}{4}$	b) 40%
	c) 0.05	c) $\frac{31}{50}$	c) 15%
Number : %/decimal/fraction	Calculate:	There are 30 people in a tennis club.	Write these numbers in order of size.
	a) $\frac{2}{5}$ of £20	$\frac{3}{5}$ of the members are male.	Start with the smallest.
	b) $\frac{3}{8}$ of £16	How many female members are there?	$0.75, \frac{2}{3}, 65%, \frac{3}{5}$
	c) $\frac{4}{7}$ of £28		
	Convert into mixed numbers	Calculate:	Simon spent $\frac{1}{4}$ of his pocket money on a computer game.
	a) $\frac{11}{5}$	a) $\frac{2}{5} + \frac{3}{10}$	He spent $\frac{1}{3}$ of his pocket money on a ticket for a football match.
	b) $\frac{20}{6}$	b) $\frac{7}{12} + \frac{1}{6}$	Work out the fraction of his pocket money that he had left.
	c) $\frac{14}{8}$	c) $\frac{3}{4} + \frac{5}{12}$	

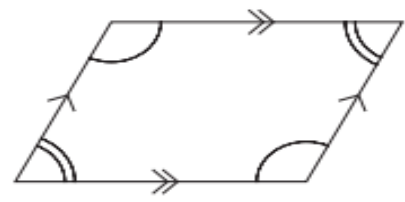
Topic 9	<p>Convert these decimals in to percentages</p> <p>a) $0.75 = 75\%$</p> <p>b) $0.2 = 20\%$</p> <p>c) $0.05 = 5\%$</p>	<p>Convert these fractions into percentages</p> <p>a) $\frac{1}{2} = 50\%$</p> <p>b) $\frac{3}{4} = 75\%$</p> <p>c) $\frac{31}{50} = 62\%$</p>	<p>Convert these percentages into fractions</p> <p>a) $25\% = \frac{1}{4}$</p> <p>b) $40\% = \frac{40}{100} = \frac{4}{10} = \frac{2}{5}$</p> <p>c) $15\% = \frac{15}{100} = \frac{3}{20}$</p>
	<p>Calculate:</p> <p>a) $\frac{2}{5}$ of £20 = £ 8</p> <p>b) $\frac{3}{8}$ of £16 = £ 6</p> <p>c) $\frac{4}{7}$ of £28 = £ 16</p>	<p>There are 30 people in a tennis club.</p> <p>$\frac{3}{5}$ of the members are male.</p> <p>How many female members are there? 12</p>	<p>Write these numbers in order of size.</p> <p>Start with the smallest.</p> <p>$0.75, \frac{2}{3}, 65\%, \frac{3}{5}$</p> <p>$\frac{3}{5}, 65\%, \frac{2}{3}, 0.75$</p>
	<p>Convert into mixed numbers</p> <p>a) $\frac{11}{5} = 2\frac{1}{5}$</p> <p>b) $\frac{20}{6} = 3\frac{2}{6} = 3\frac{1}{3}$</p> <p>c) $\frac{14}{8} = 1\frac{6}{8} = 1\frac{3}{4}$</p>	<p>Calculate:</p> <p>a) $\frac{2}{5} + \frac{3}{10} = \frac{7}{10}$</p> <p>b) $\frac{7}{12} + \frac{1}{6} = \frac{9}{12} = \frac{3}{4}$</p> <p>c) $\frac{3}{4} + \frac{5}{12} = \frac{14}{12} = 1\frac{1}{6}$</p>	<p>Simon spent $\frac{1}{4}$ of his pocket money on a computer game.</p> <p>He spent $\frac{1}{3}$ of his pocket money on a ticket for a football match.</p> <p>Work out the fraction of his pocket money that he had left.</p> <p>$\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ left = $\frac{5}{12}$</p>
Number: %/decimal/fraction			

What colour is:

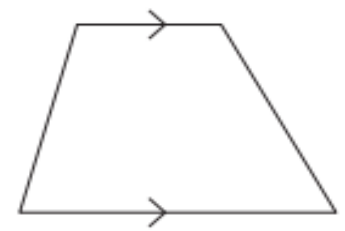
- $\angle ABC$
- $\angle DCE$
- $\angle CAB$



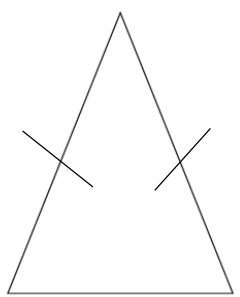
Name the quadrilateral



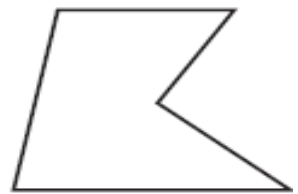
Name the quadrilateral



Name the shape



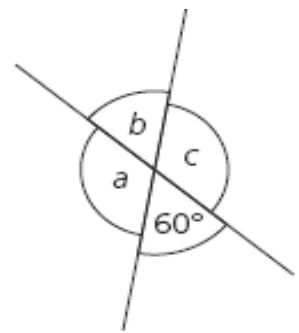
Name the polygon



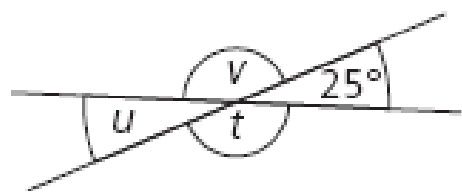
Name the polygon



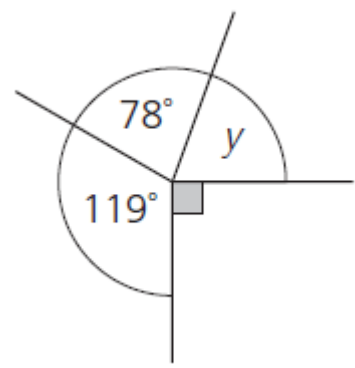
Calculate the missing angles



Calculate the missing angles



Calculate the missing angle

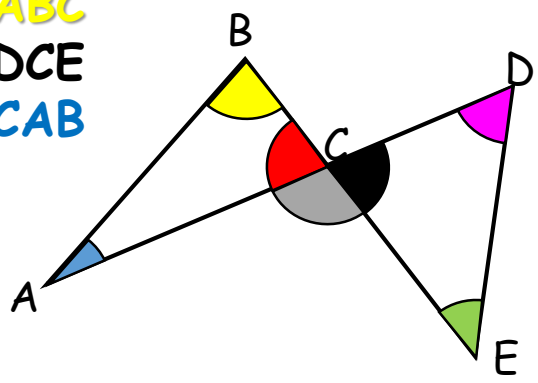


Topic 10

Geometry: Angles

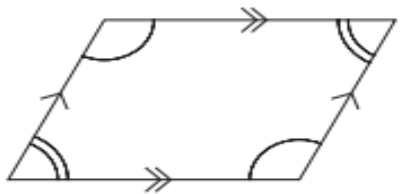
What colour is:

- $\angle ABC$
- $\angle DCE$
- $\angle CAB$



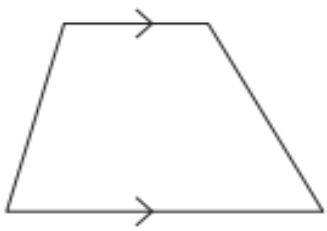
Name the quadrilateral

parallelogram

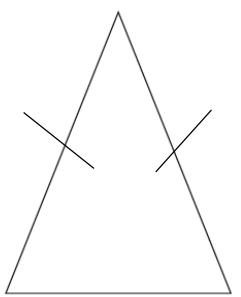


Name the quadrilateral

trapezium

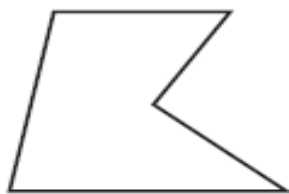


Name the shape



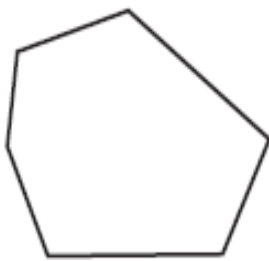
Isosceles triangle

Name the polygon



Irregular Concave pentagon

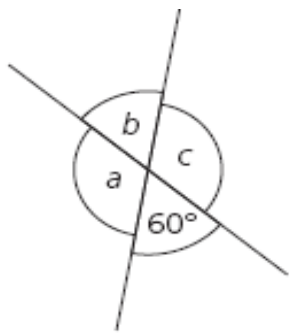
Name the polygon



Irregular convex hexagon

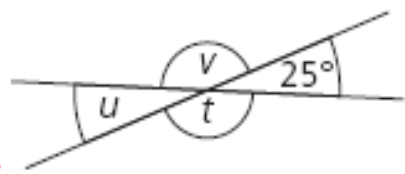
Calculate the missing angles

- $a = 120^\circ$
- $b = 60^\circ$
- $c = 120^\circ$



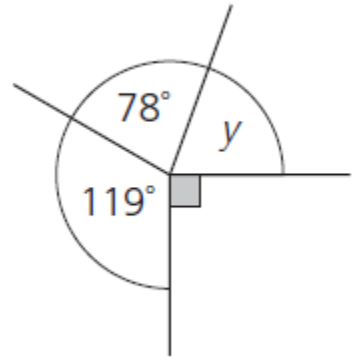
Calculate the missing angles

- $v = 155^\circ$
- $u = 25^\circ$
- $t = 155^\circ$



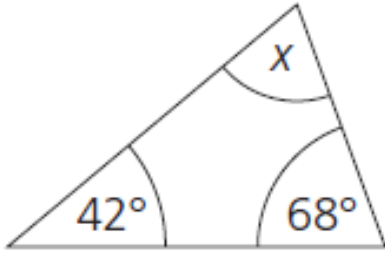
Calculate the missing angle

$y = 73^\circ$

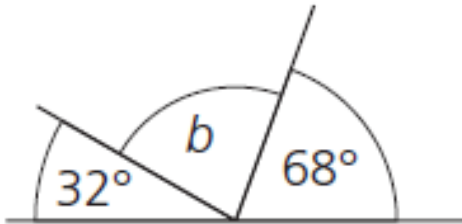


Topic 10

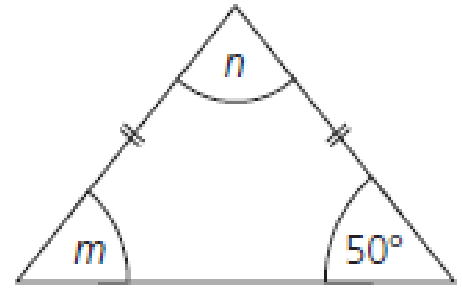
Calculate the missing angle



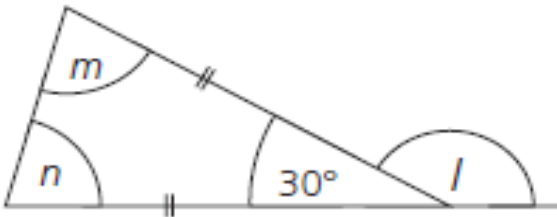
Calculate the missing angle



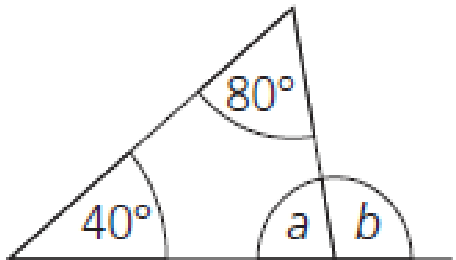
Calculate the missing angles.



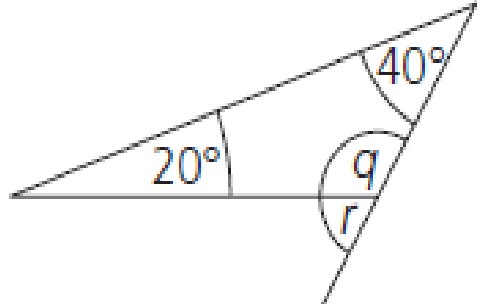
Calculate the missing angles



Calculate the missing angles

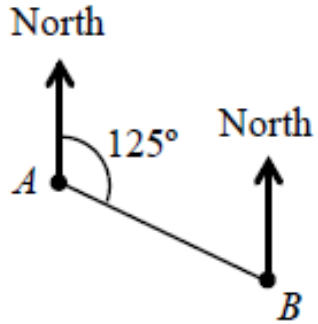


Calculate the missing angle

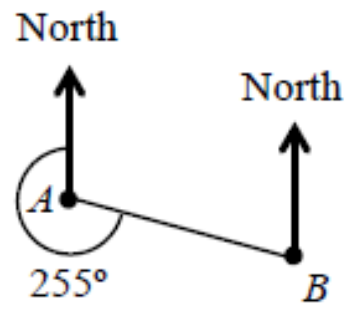


Geometry: Angles

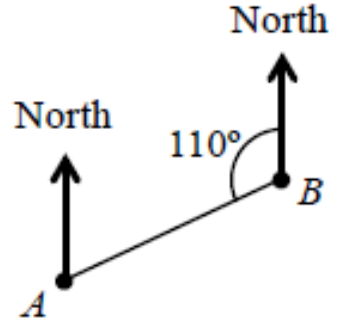
What is the bearing of B from A?



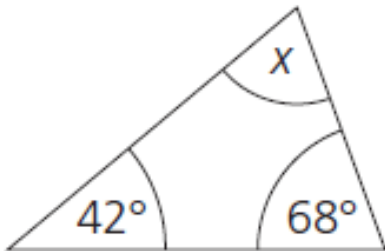
What is the bearing of B from A?



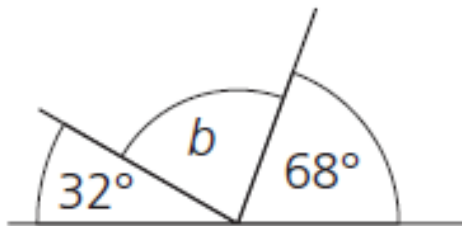
What is the bearing of B from A?



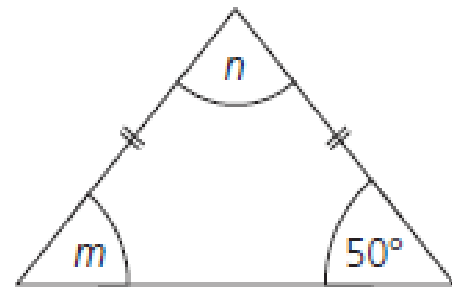
Calculate the missing angle
 $x = 78^\circ$



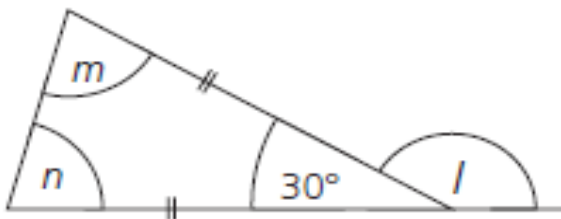
Calculate the missing angle
 $b = 80^\circ$



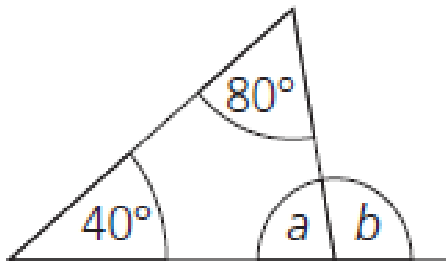
Calculate the missing angles.
 $m = 50^\circ$ $n = 80^\circ$



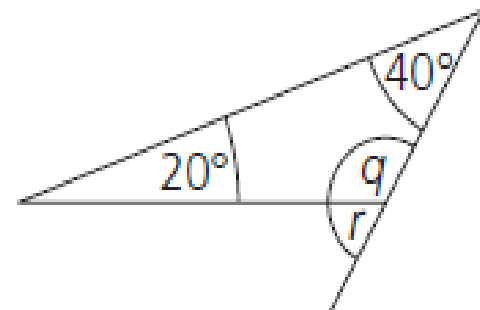
Calculate the missing angles
 $m = 75^\circ$ $n = 75^\circ$ $l = 150^\circ$



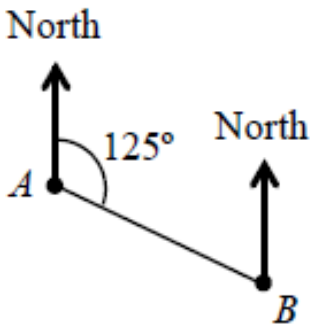
Calculate the missing angles
 $a = 120^\circ$ $b = 60^\circ$



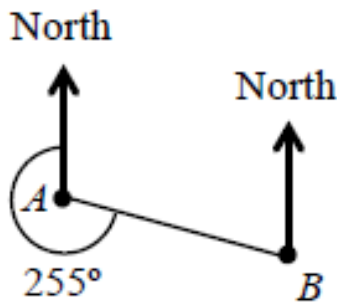
Calculate the missing angle
 $q = 120^\circ$ $r = 60^\circ$



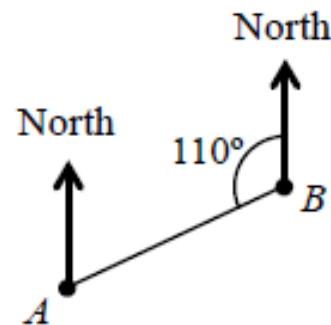
What is the bearing of B from A?
 125°



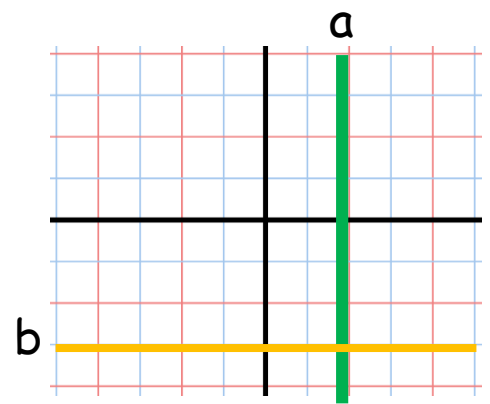
What is the bearing of B from A?
 105°



What is the bearing of B from A?
 70°



Name these two lines:



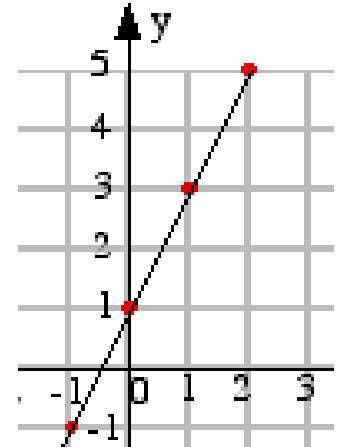
Complete this table for $y = x + 3$

x	0	1	2	3	4
y	3				

Complete this table for $y = 2x - 2$

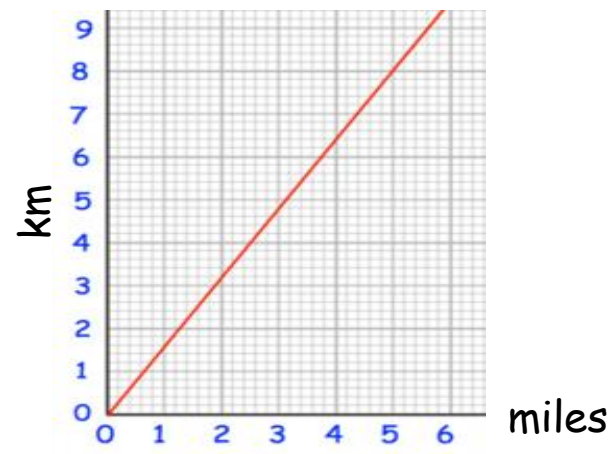
x	0	1	2	3	4
y	-2				

State the equation of this straight line



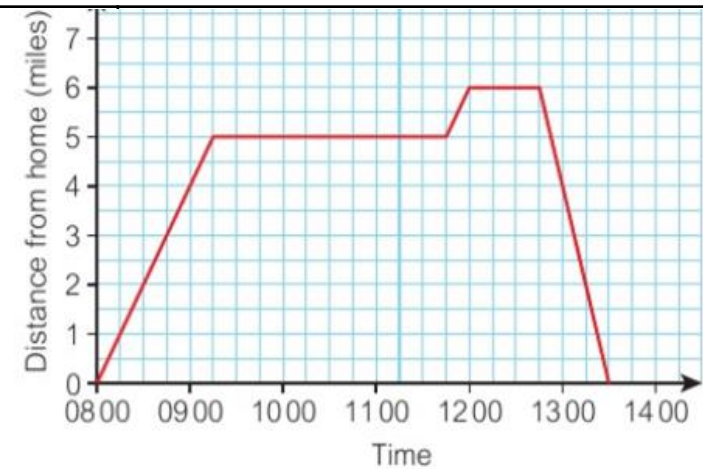
Use the graph to convert

- 5 miles into km
- 1 mile into km
- 16 km into miles
- 20 miles into km



Rob walks from his house to visit a friend. Later he walks to collect his bike from the repair shop. He then cycles home.

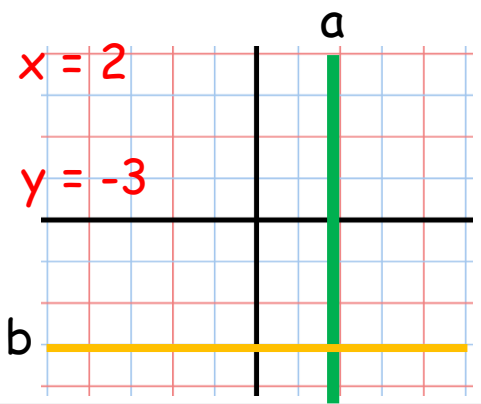
- When did he arrive at his friends.
- How long did he stay at his friends?
- When was Rob travelling fastest?



Name these two lines:

a: $x = 2$

b: $y = -3$



Complete this table for $y = x + 3$

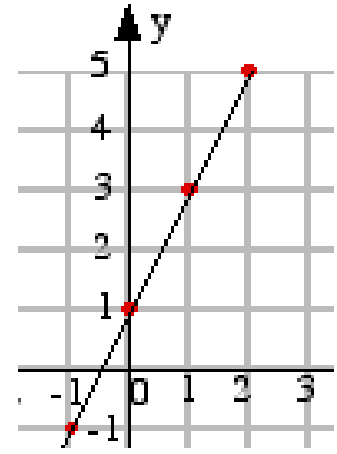
x	0	1	2	3	4
y	3	4	5	6	7

Complete this table for $y = 2x - 2$

x	0	1	2	3	4
y	-2	0	2	4	6

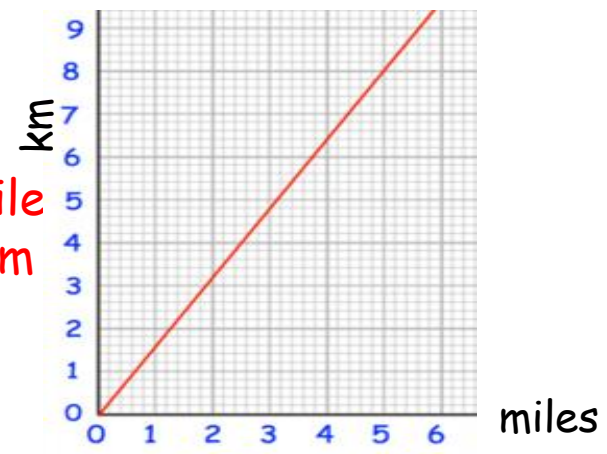
State the equation of the line

$y = 2x + 1$



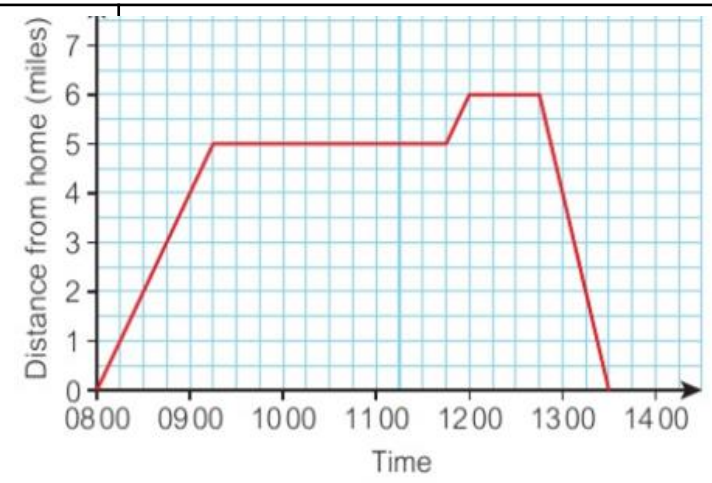
Use the graph to convert

- a) 5 miles into km = 8 km
- b) 1 mile into km = 1.6 km
- c) 16 km into miles = 10 mile
- d) 20 miles into km = 32 km

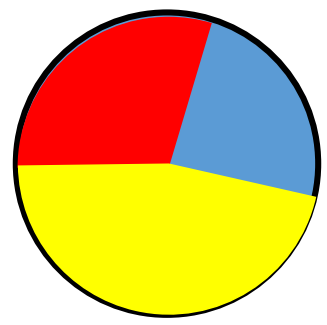


Rob walks from his house to visit a friend. Later he walks to collect his bike from the repair shop. He then cycles home.

- a) When did he arrive at his friends. 09:15
- b) How long did he stay at his friends? $2 \frac{1}{2}$ h
- c) When was Rob travelling fastest? At the end



What colour is the mode?



Draw a stem and leaf diagram for the following heights of plants in cm.

11 12 13 13 23 23 23 25
29 29 30 32 32 36 36 37
41 41 42 44 48

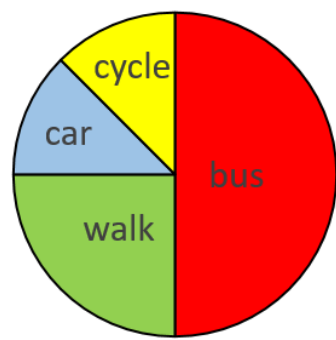
For your stem and leaf write down

- a) A key
- b) The range
- c) The median
- d) The mode

80 people = Man Utd fans
How many Fans did the Other teams have.



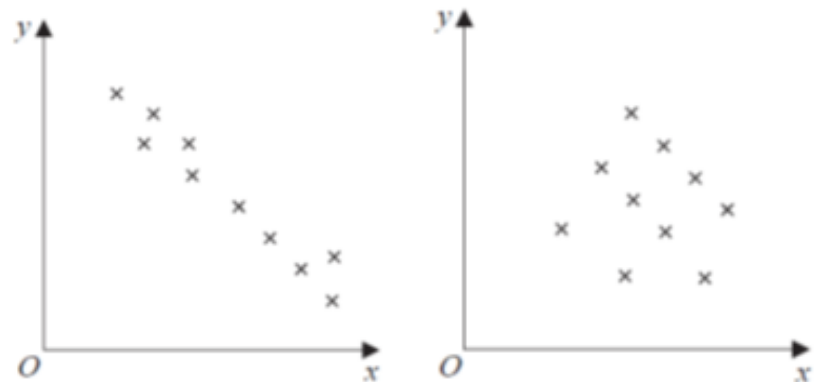
Total = 32 pupils
How many came to school by each method.



Find the missing angles?

	Frequency	Angle
Red	35	
Blue	10	
Green	15	
Total	60	

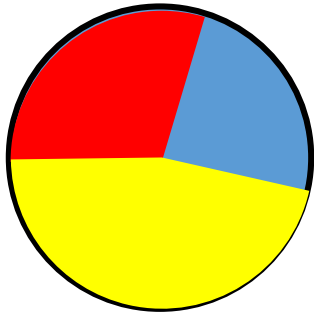
What could we put on the axes to show these types of correlation?



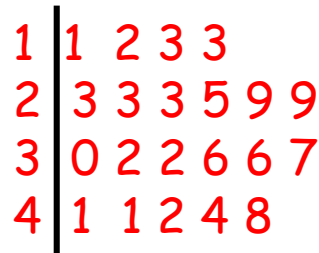
Draw a back to back stem and leaf comparing temperatures for a town.
Min temp: 7 13 12 8 14 13 10 11 9 6 12
Max temp: 18 22 25 16 27 27 21 23 17 16 19
Compare median and range for both.

What colour is the mode?

yellow



Draw a stem and leaf diagram for the following heights of plants in cm.



For your stem and leaf write down

- a) A key Key: 1|1=11cm
- b) The range 37cm
- c) The median 30cm
- d) The mode 23cm

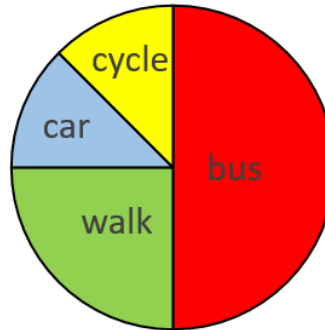
80 people = Man Utd fans
How many Fans did the Other teams have.

C = 40
A = 40
MC = 160



Total = 32 pupils
How many came to school by each method.

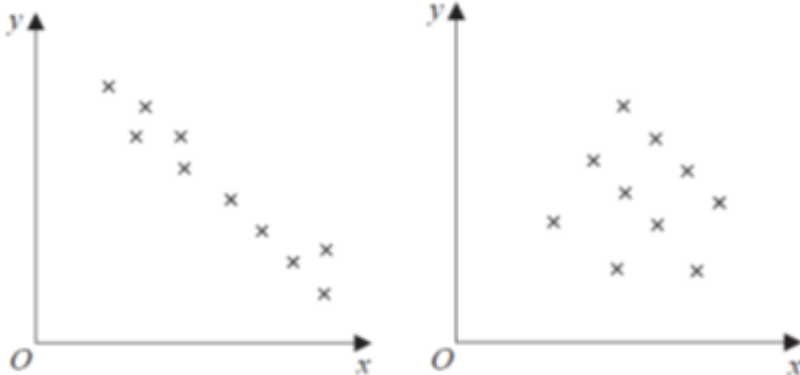
Cy = 4
C = 4
W = 8 B = 16



Find the missing angles?

	Frequency	Angle
Red	35	210
Blue	10	60
Green	15	90
Total	60	360

What could we put on the axes to show these types of correlation?



```

      9 8 7 6 | 0
4 3 3 2 2 1 0 | 1 | 6 6 7 8 9
                | 2 | 1 2 3 5 7 7
    
```

Key 9|0 = 9°C 0|9 = 9°C
 Min: Median 11°C
 Range 8°C
 Max: Median 21°C
 Range 11°C