

#### Guidance

- 1. Read each question carefully before you begin answering it.
- 2. Don't spend too long on one question.
- 3. Attempt every question.
- 4. Check your answers seem right.
- 5. Always show your workings

Revision for this test

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1. Here are four different digits.

8 1 5 6

(i) Put one digit in each box to make the **smallest** total. You may only use each digit once.

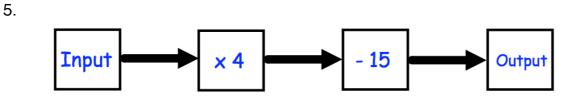
	+	
	(ii) Write down the total	(1)
		(1)
2.	The heights of 7 children are shown below.	
	132cm 1.2m 98cm 0.99m 116cm 1.4m	n 1.33m
	(a) Change 132cm into metres.	m (1)
	(b) Change 98cm into metres.	
	(c) Order the heights, starting with the shortest.	m (1)
		(1)
	(d) Work out the median.	
		(1)
	Children over 1 metre may go on a ride at a funfair.	
	(e) What fraction of the children may not go on the ride.	

3. The temperature, in °C, at midnight at a weather station on 5 days was recorded

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	-4	1	-6	1	-2

(a) What fraction of the days had a temperature below 0°C?

	(b) What is the range of the temperatures?	(1)
		°C (1)
4.	From the list of numbers	
	3 5 7 9 11 15 24	
	(a) Write down a factor of 12	
		(1)
	(b) Write down a factor of 28	
		(1)
	(c) Write down a factor of 81	
		(1)



(a) Work out the output, when the input is 10.

(1)

(b) Work out the input, when the output is 25.

.....(1)

(c) If the input is the same as the output, work out the input.

••••••
(1)

### 6. Don says

"the difference between two consecutive cube numbers is always odd."

Is Don correct? You must show your workings. 7. Trains leave Bristol

to Cardiff every 15 minutes to London every 21 minutes

A train to Cardiff and a train to London both leave Bristol at 11am.

At what time will a train to Cardiff and a train to London next leave Bristol at the same time?

8. Penny gets £8 pocket money. She is given an increase of £3.

(a) Write down  $\pounds 3$  as a fraction of  $\pounds 8$ 

(1)

.....

(3)

(b) Write your answer as a percentage

.....(1)

9. Jo has a recipe for Bolognese Sauce,

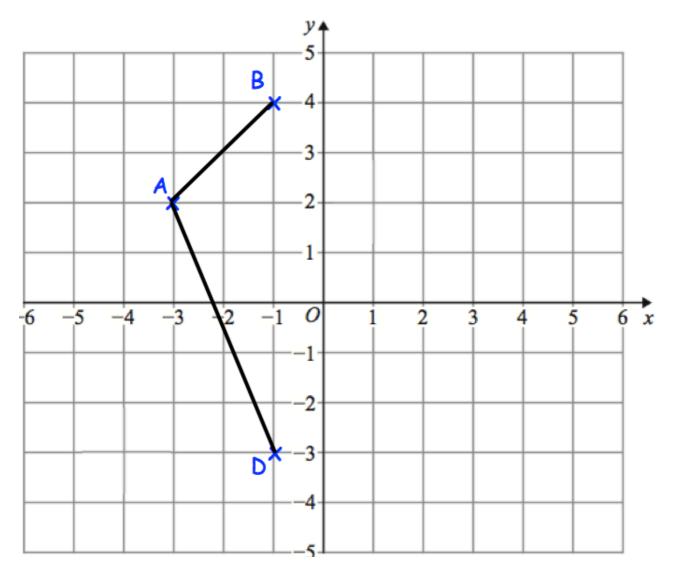
# **Bolognese Sauce**

Minced Beef	500 g
Chopped Tomatoes	750 g
Mushrooms	40 g
Chicken Stock	150 ml

She only has 400g of minced beef.

How much of the other ingredients should she use?

Chopped Tomatoes: .....g Mushrooms: .....g Chicken Stock: .....g



10. The points A (-3, 2), B (-1, 4) and D (-1, -3).

ABCD is a kite. Complete the kite and write down the coordinates of C.

(.....) (2)

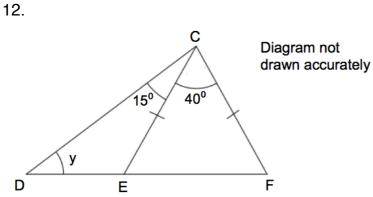
11. An airplane has economy and first class seating. There are *s* seats in each row in economy. There are *t* seats in each row in first class.

There are 9 rows in first class and 24 rows in economy.

Write down an expression, in terms of s and t, for the number of seats on the airplane.

.....

(2)

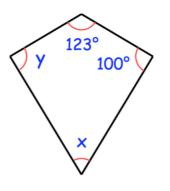


DEF is a straight line. CE = CF.Angle ECF is 40°. Angle DCE is 15°.

Find the size of the angle marked y.



13. Shown below is a kite.

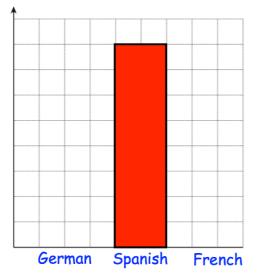


(a) Find x

0 (1)

(b) Find y

0 (1) 14. Miss Jackson asked the 32 students in her tutor group which language they study.



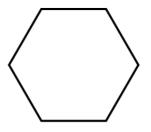
Each student studies one language only.

Half of the students in the tutor group study Spanish. Six more students study German than French.

Complete the bar chart.

(4)

15. The diagram below shows a regular hexagon.



(a) Write down the order of rotational symmetry of the hexagon.

.....(1)

(b) On the diagram draw in all the lines of symmetry.

(2)

#### 16. Complete the table below.

	Faces	Edges	Vertices
Cube			8
Square-based Pyramid	5		
Triangular Prism		9	

(6)

17. Here is part of a train timetable.

	Departure times			
Antrim	12:30	13:00	14:00	16:00
Randalstown	12:45	13:15	14:15	16:15
Ballymena	13:01	13:31	14:31	16:31
Ballycastle	13:39	14:09	15:09	17:09

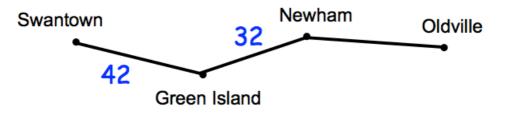
Freddy wants to travel from Randalstown to Ballycastle. He arrives at Randalstown at 13:03 to catch the next train to Ballycastle.

(a) How long does this train journey take?

 minutes
(2)

Jennifer lives in Antrim and her friend lives in Ballymena. Jennifer lives a 5 minute walk from Antrim train station. Her friend lives a 30 minute walk from Ballymena train station. Jennifer wants to arrive at her friend's house **before** 3pm. Plan Jennifer's journey to her friend's house. 18. Here is a route map between four towns.

The distances, in kilometres, between some of the towns are shown on the map.



The distance from Swantown to Oldville is 95 kilometres.

(a) Work out the distance from Newham to Oldville.

 kilometres
(2)

(b) Complete the distance chart below to show the distances between the towns.

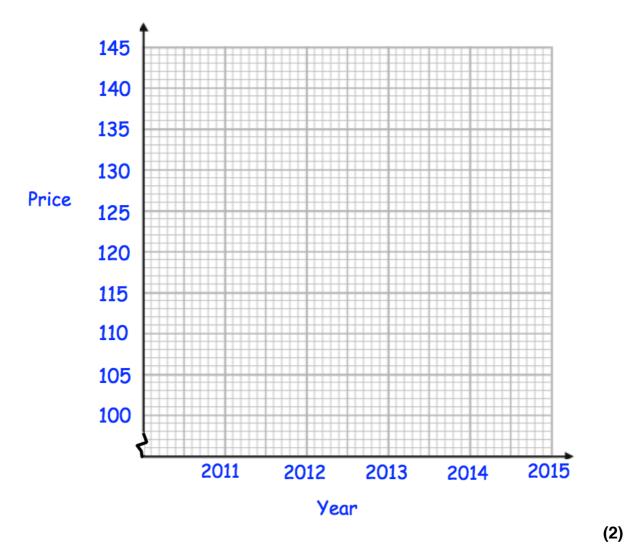
Swantown			
42	Green Island		
	32	Newham	
			Oldville

(3)

19. The table shows the average price of unleaded petrol in England over 5 years.

Year	Price in pence
2011	111
2012	128
2013	133
2014	132
2015	108

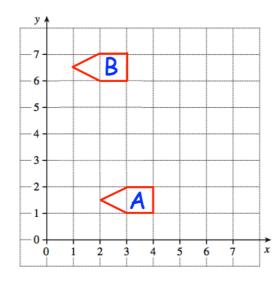
(a) Draw a line graph for the data



(b) Between which two consecutive years did the price increase the most?

..... and .....

(1)



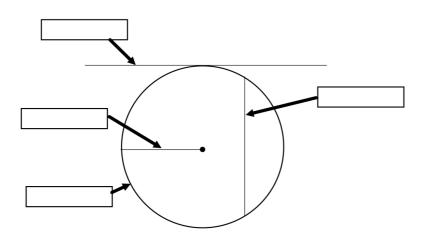
Write down the translation vector that would take A to B.

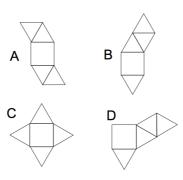


21. Here is a list of words connected to circles.

TangentRadiusDiameterChordCentreCircumference

Label the four boxes in the diagram below, by choosing the correct word from the list.





Three of these diagrams show a net for a square-based pyramid.

Write down the letter of the diagram which is **not** a net for a square-based pyramid.

(1)			
		Simplify	23.
	8 × y × 2	(a)	
(1)			
	a × a × a	(b)	
(1)			
	3×a×c	(C)	
(1)			
	w×5×e	(d)	
(1)			
	2y × y	(e)	
(1)			
	3a × 4c	(f)	
(1)			

24. 100 people study one language at a college.

Some people study French. Some people study Spanish. The rest of the people study German.

54 of the people are male.20 of the 29 people who study Spanish are female.31 people study German.15 females study French.

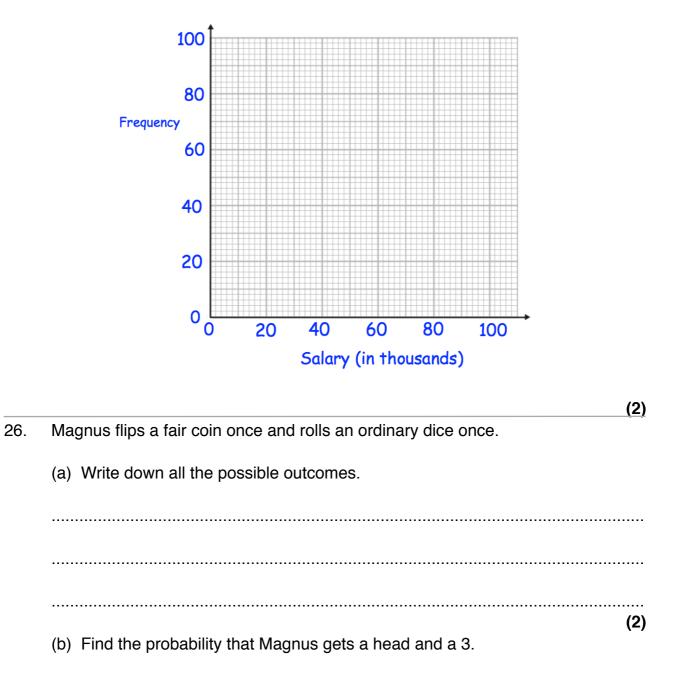
Work out the number of males who study German.

.....(4)

25. The table gives information about the income of 200 households in a village.

Income (thousands)	Frequency
0 < I ≤ 20	40
20 < I ≤ 40	75
40 < I ≤ 60	64
60 < I ≤ 80	20
80 < I ≤ 100	1

Draw a frequency polygon for the information in the table.



27.

#### (a) Simplify 8a + 3c - 5c + 3a

(c) Simplify  $3y^2 + 2w^2 + y^2 - w^2$ 

(2)

28. Hannah is recording the number of letters in each word in an article.

These are the first ten lengths.

3 4 5 6 2 4 3 7 3 6

(a) Work out the median.

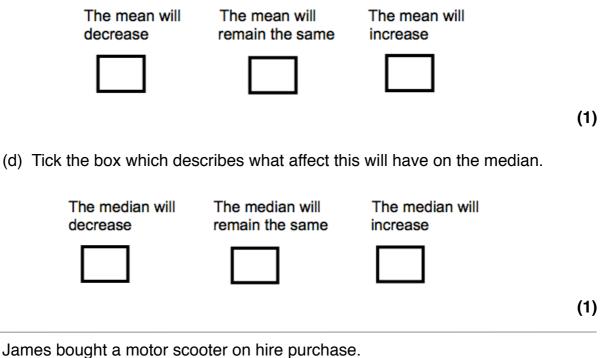
(2)

.....

(b) Calculate the mean.

The 11<sup>th</sup> word has 4 letters.

(c) Tick the box which describes what affect this will have on the mean.



29. James bought a motor scooter on hire purchase.He paid a deposit of £275 and 18 monthly payments of £36.

At the end of the payments, he sold the motor scooter for £450.

How much did it cost him in total?

30. Paul has £10 to buy rulers at 60p each.

What change should he get if he buys as many as possible?

(3)

31. James has x pence.Hannah has 5 pence more than James.Liam has 2 pence less than James.

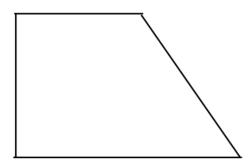
The total amount of money they have is 75 pence.

(a) Use this information to write down an equation in x.

(b) Solve the equation to find out how much money James has.

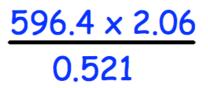
•••	 	 	.pence
			(2)

## 32. Here is a trapezium.



	(a)	Mark a right angle with a letter R.	(1)
	(b)	Mark an acute angle with a letter A.	(1)
	(c)	Mark an obtuse angle with a letter O.	(1)
33.	(a)	Write 5725 to the nearest 100.	
			(1)
	(b)	Write 83.07718 correct to two decimal places.	
			(1)
	(C)	Write 6.35 correct to 1 decimal place.	
			(1)
	(d)	Write 129.34952 correct to 1 decimal place.	

(1)



(3	
	Work out
	(a) $(2+5)^2$
(1	
	(b) 5 + 3 x 6
(1	
	(c) 22 – 14 ÷ 2
(1	

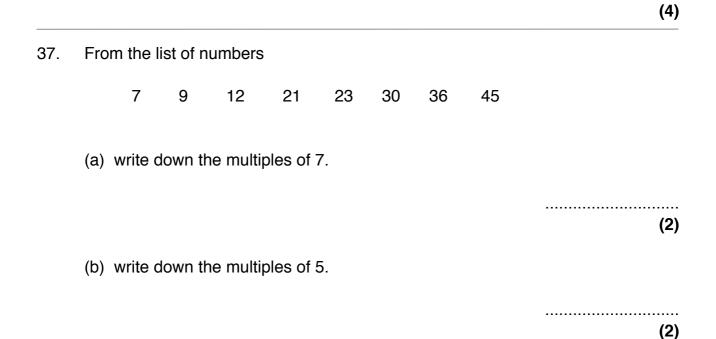
36. Timothy orders the following items at a restaurant.

4 pizzas at £4.49 each. 2 garlic breads at £3.10 each.

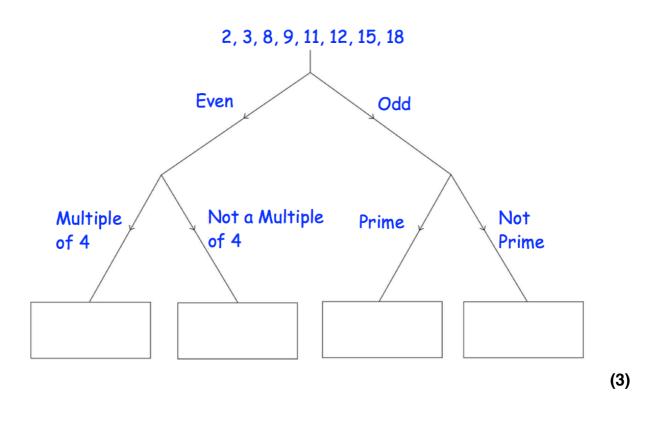
- 2 orange juices at £1.19 each.
- 2 sparkling water at 99p each.

Complete the bill below.

Corbett Cuisine						
£ penc						
4 pizzas at £4.49	17	96				
2 garlic bread at £3.10						
2 orange juice at £1.19						
2 sparkling water at 99p						
Total						



38. Sort **all** the numbers into the correct boxes.



39. Arrange these in order, starting with the smallest.

 $3^2$   $\sqrt{100}$   $4^2$   $\sqrt{80}$ 

.....

(2)

40. (a) Write 60 as a product of its prime factors.

(2)

(b) Find the Lowest Common Multiple (LCM) of 60 and 75.

(2)

41. Bill is 80 years old.

His son Max is 5% of his age.

His granddaughter Jayne is  $\frac{1}{5}$  of his age.

How many years older than Jayne is Max?

.....(4)

42. Work out, as a simplified fraction.

$$\frac{3}{4} + \frac{2}{9}$$

(2)

43. Work out

 $1\frac{1}{3} \times 2\frac{2}{5}$ 

Give your answer as a mixed number.

(3)

44. Work out

 $\frac{2}{17} \div \frac{2}{5}$ 

Give your answer as a fraction in its simplest form.

(2)

45. At Frome International train station, 35% of trains were late in a week. In that week there were 440 trains.

Calculate how many trains were on time.

46. At a rugby match, the ratio of children to adults is 2 : 3 There are 80 children in the crowd. Each adult ticket costs £8 Each child ticket costs a quarter of the adult ticket.

Work out the total money made from ticket sales.

£.....(4)

.....

(3)

47. v = u + at

(a) Work out v when u = 23, a = 4 and t = 3

(2)

.....

.....

(2)

(2)

(b) Work out u when v = 30, a = 2 and t = 8

(c) Work out t when v = 40, u = 12 and a = 4

222

Tony makes a fair six-sided spinner. The spinner has the numbers 7, 8 and 9 on it.

The probability the spinner will land on 7 is greater than the probability that the spinner will land on 8.

The probability that the spinner will land on 9 is  $\frac{1}{3}$ 

Write the numbers on the spinner.



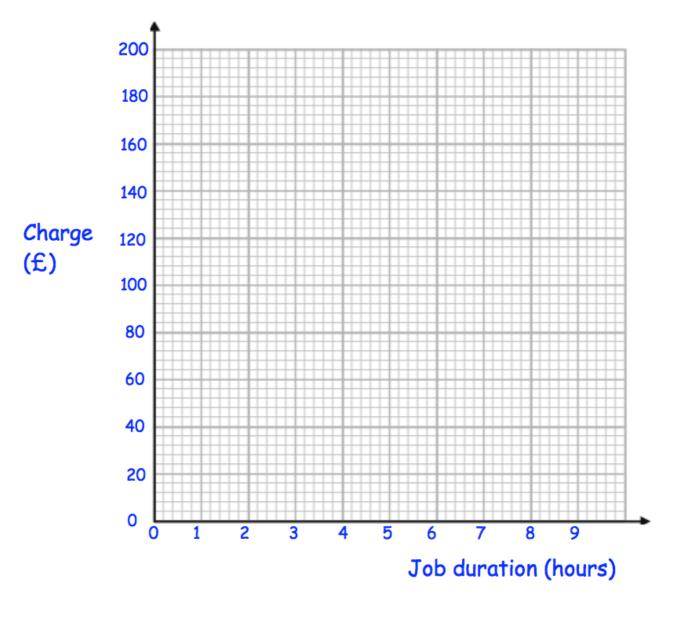
48.

49. The table shows the charge (£) by plumbers for jobs of different duration (hours).

Job duration (hours)	1	2	3	3	5	6	6
Charge (£)	60	80	104	116	128	140	160

(2)

(a) Plot the data on the scatter graph below.



(b) Describe the correlation.

- (c) Draw a line of best fit on the scatter graph.
- (d) Use your line of best fit to estimate the charge for a 4 hour job.

£.....(1)

(e) Explain why it may **not** be appropriate to use your line of best fit to estimate the charge for a job lasting 12 hours.

(1)

50. The number of hours of sunshine on a day, across a number of cities is shown below.

Norwich	$\diamond$	$\diamond$	$\diamond$	$\diamond$	$\diamond$	¢
Dublin	$\diamond$	$\diamond$	$\diamond$	$\diamond$		
Belfast	$\diamond$	$\diamond$	$\diamond$	¢		
Aberdeen	¢	$\diamond$				
Cardiff	¢	$\diamond$	¢	$\diamond$		
Glasgow						

2 = 2 hours of sunshine

(a) How many more hours of sunshine was there in Norwich than Belfast?

.....hours (1)

In Glasgow there was 9 hours of sunshine.

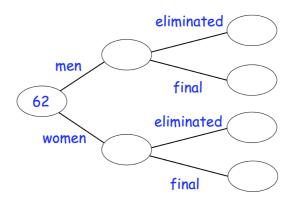
(b) Complete the pictogram.

51. 62 people took part in a talent show

43 of the people were women.

10 people made it through to the final and the rest were eliminated.

3 men made it through to the final



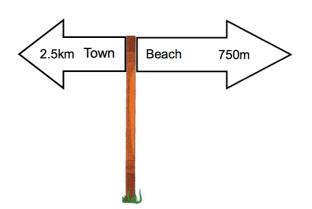
a) Complete the frequency tree

(2)

#### b) What fraction of the men made it through to the final?

		(2)

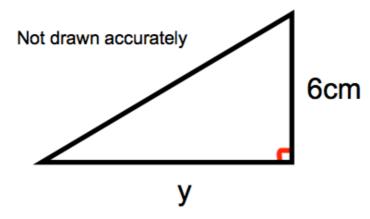
52.



Work out the distance between the town and the beach. State your units.

(3)

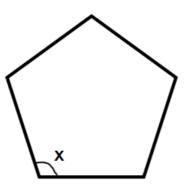
53. Shown below is a right-angled triangle.



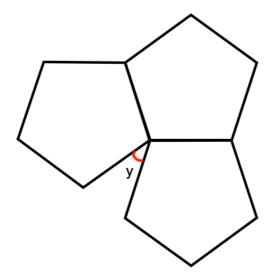
The area of the triangle is 21cm<sup>2</sup> Calculate y, the length of the base.

 	cm
	(2)

54. Shown below is a regular pentagon.

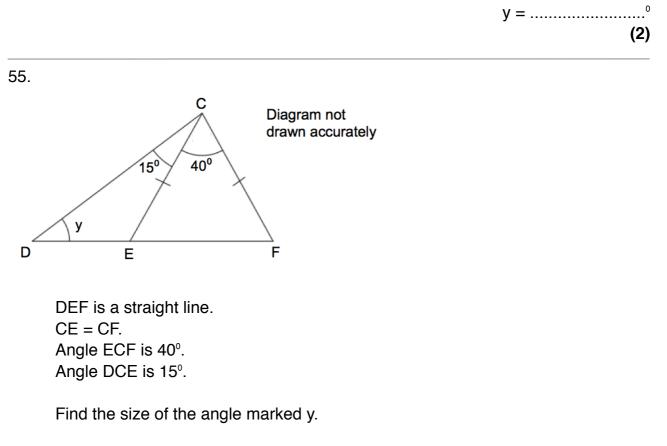


(a) Find the size of each interior angle.



Three identical regular pentagons are joined as shown above.

(b) Work out the size of angle y.



.....<sup>°</sup> (4) 56. A car travels 240 kilometres in 3 hours.

Calculate the average speed, in km/h, of the car.

.....km/h **(3)** 

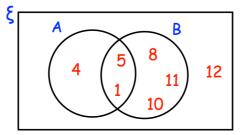
57. The time for ten students to complete a race is below.

Time (t seconds)	Frequency
20 < t ≤ 40	3
40 < t ≤ 60	5
60 < t ≤ 80	2

Work out an estimate for the mean time taken.

.....seconds (4)

58. Here is a Venn diagram.



A number is chosen at random.

- (a) Write down  $P(A \cap B)$
- (b) Write down  $P(A \cup B)$

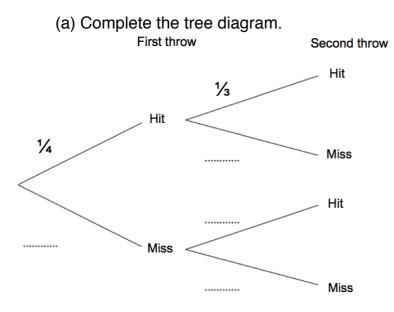
(2)

(2)

.....

59. Jennifer is playing darts. She throws two darts aiming for a Bullseye.

> The probability Jennifer hits the Bullseye on her first throw is 1/4. The probability she hits the Bullseye on her second throw  $\frac{1}{3}$ .



(b) Work out the probability Jennifer hits the Bullseye at least once.

60. James is going on holiday in New York. James changes £400 into dollars (\$).

The exchange rate is  $\pounds 1 = \$1.50$ 

Work out how many dollars (\$) James will receive.

61.

62. A fish tank sprung a leak and loses 20% of its water. There is now 240 litres of water in the fish tank.

How much water was in the fish tank before the leak?

63. A piece of carpet is 240cm long. Mr Jones cuts it into three pieces in the ratio 1 : 2 : 5 Work out the length of the longest piece of carpet.
(3)

64. Peter's weight decreases from 80kg to 64kg.

Calculate the percentage decrease in Peter's weight.

.....% (2)

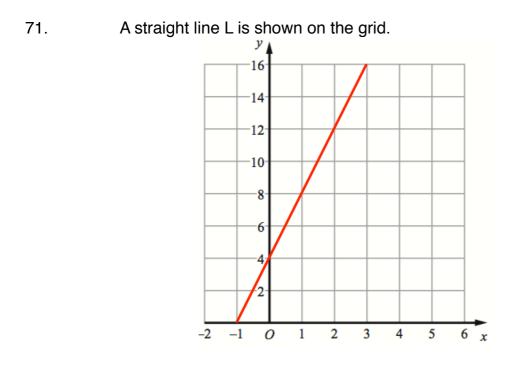
65. Evaluate

4<sup>-2</sup>

.....(1)

66.	Expand and simplify	(w - 6)(w + 7)	
			(2)
67.	Solve $4y + 1 = 29 - 2y$	1	
			y =(2)
68.	Work out the <i>n</i> th term fo	r this sequence	
	12 22 32	42 52	
69.	Factorise fully		(2)
	9m <sup>2</sup> – 12i	np	
			(2)

70. Factorise  $x^2 + 4x - 12$ 



Work out the equation of line L

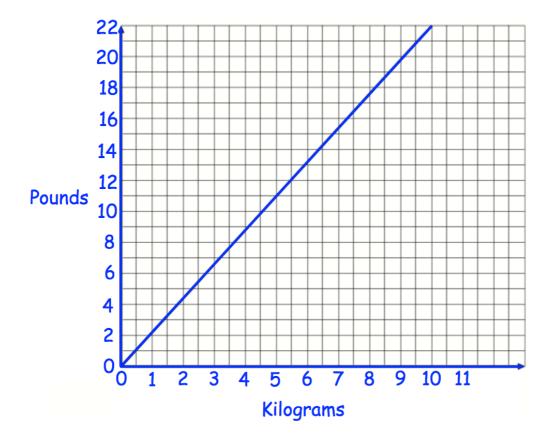
72. Solve the inequality  $4x + 6 \ge 2$ 

(2)

.....

(3)

73. Shown below is a conversion to change between kilograms and pounds.



(a) Using the graph, convert 5 kilograms to pounds.

pou	nds
	(1)

(b) Using the graph, convert 8 pounds to kilograms.

 kilograms
(1)

A piano weighs 150 kilograms.

(c) Change 150 kilograms to pounds.

.....pounds (2)

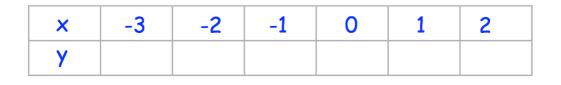
(2)

## 75. Sebastian leaves £3000 in the bank for two years. It earns compound interest of 2% per year.

Calculate the total amount Sebastian has in the bank at the end of the two years.

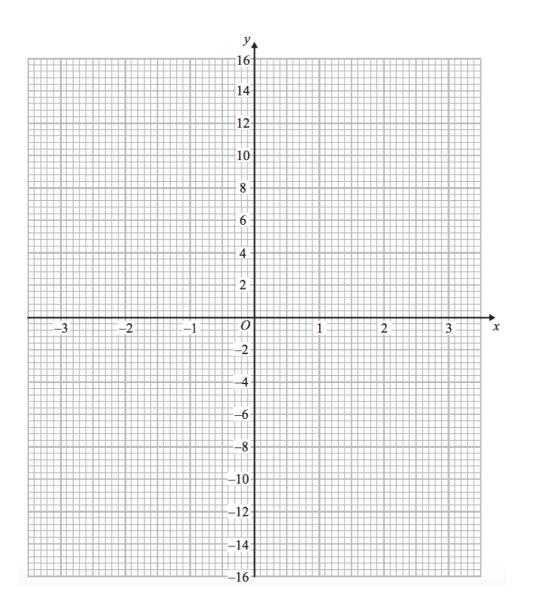
			£
			(2)
76.		Write the following numbers in standard form.	
	(a)	40000	
			(1)
	(b)	5600	
			(1)
	(C)	41200000	
			(1)
	(d)	0.0000008	
			(1)

77. (a) Complete the table of values for  $y = x^3 + 2x^2 - 1$ 



(2)

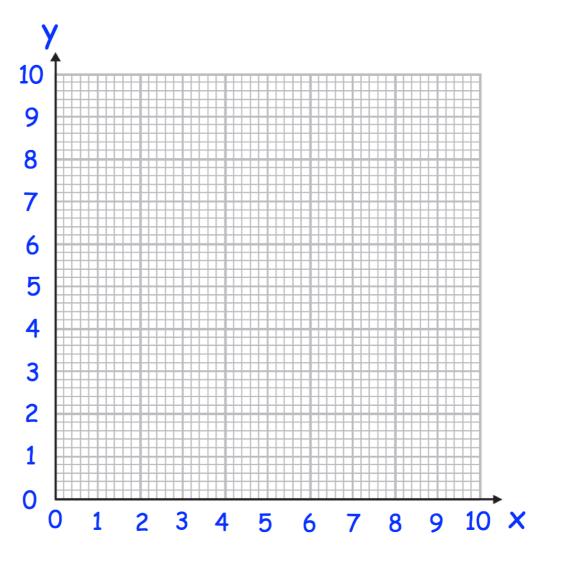
(b) On the grid, draw the graph of  $y = x^3 + 2x^2 - 1$  for the values of x  $-3 \le x \le 2$ 

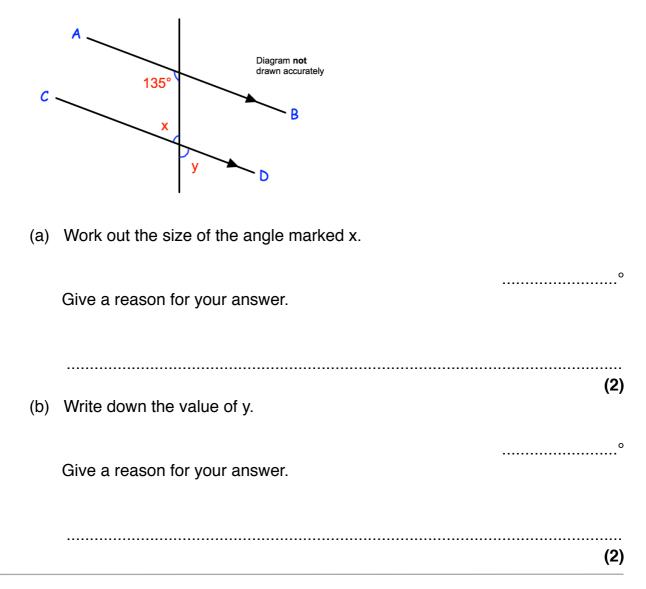


78. Complete the table of values for  $y = \frac{5}{x}$ 

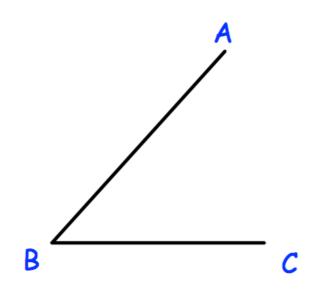


(b) On the grid, draw the graph of  $y = \frac{5}{x}$  for  $0.5 \le x \le 10$ 





80. Using ruler and compasses, construct the bisector of angle ABC.



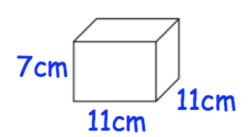
## 81. A and B are two points.

A<sub>x</sub> B

Shade the region which contains those points which are both closer to A than to B, and less than 5cm from B.

(2)

82.



Work out the surface area of this cuboid. State the units of your answer.

83. What is the volume of a piece of metal that has a mass of 300g and density of 6g/cm<sup>3</sup>?

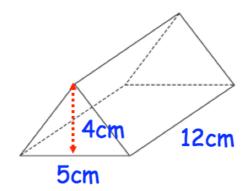
.....cm<sup>3</sup> (2)

84.

Find the pressure exerted by a force of 240 newtons on an area of 30cm<sup>2</sup>. Give your answer in newtows/m<sup>2</sup>

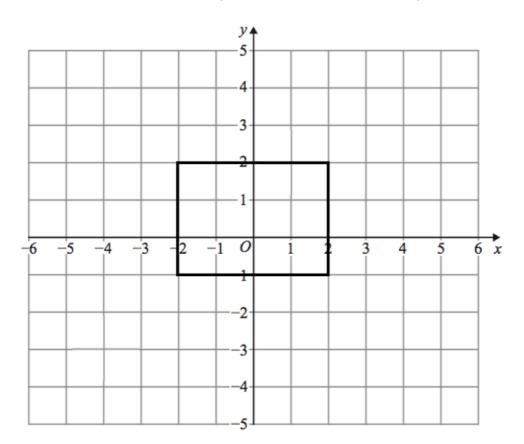
(3)

85. Shown below is a triangular prism.



Find the volume of the triangular prism.

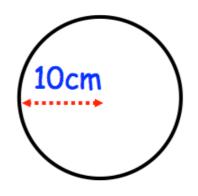
.....cm<sup>3</sup> (3)



Enlarge the rectangle by scale factor 2, using centre of enlargement (-1, 0).

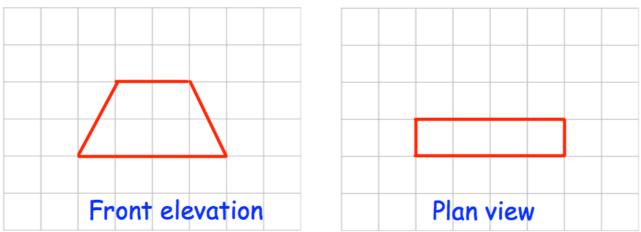
(3)

87. Shown below is a circle with radius 10cm.



Work out the circumference of the circle. Give your answer in terms of  $\boldsymbol{\pi}.$ 

.....cm (2)



(a) On the grid, draw the side elevation.

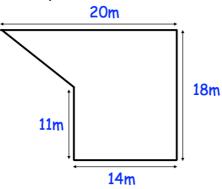


(2)

(b) Draw a sketch of the solid shape.

88.

89. Shown is the plan of a small field.

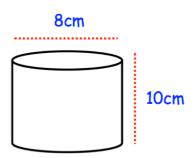


Thomas is going to keep some chickens in the field. Each chicken needs  $5m^2$ .

Work out the greatest number of chickens Thomas can keep in the field.

(5)

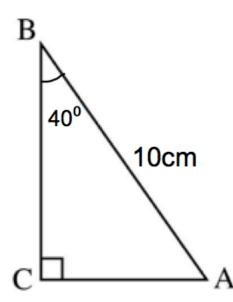
90. Below is a cylinder with diameter 8cm and height of 10cm.



Find the volume of the cylinder. Give your answer in terms of  $\boldsymbol{\pi}$ 

..... cm<sup>3</sup> (3)

91. The diagram shows a right-angled triangle ABC. (Non-calculator question)

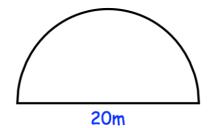


Angle	Sine	Cosine	Tangent
<b>40°</b>	0.643	0.766	0.839
<b>50°</b>	0.766	0.643	1.192

Calculate the length of BC.

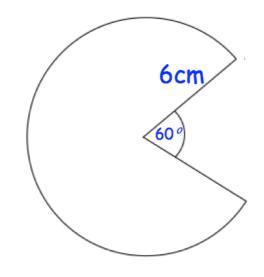
 .cm
(3)

92. A semi-circle has diameter 20cm.



Taking  $\pi$  = 3.14, calculate the perimeter of the semi-circle.

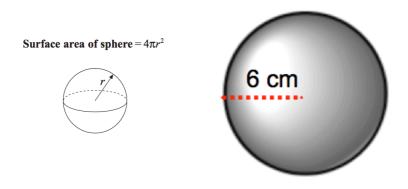
.....m (2) 93. Shown is a major sector of a circle.



Find the area of the major sector. Give your answer in terms of  $\pi$ .

.....cm² (3)

94. Shown is a sphere with radius 6cm.

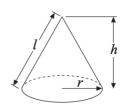


Calculate the surface area of the sphere. Give your answer in terms of  $\boldsymbol{\pi}.$ 

.....cm² (3) 95. A cone has base diameter 18cm. The height of the cone is 20cm.

Calculate the volume of the cone. Leave your answer in terms of  $\pi$ 

Volume of cone  $=\frac{1}{3}\pi r^2 h$ Curved surface area of cone  $=\pi rl$ 



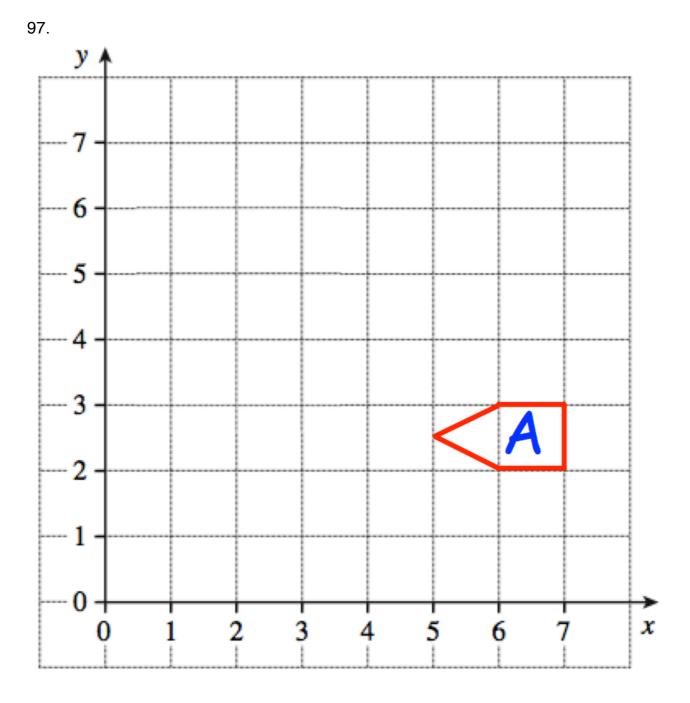
	cm³
	(3)

96. Given

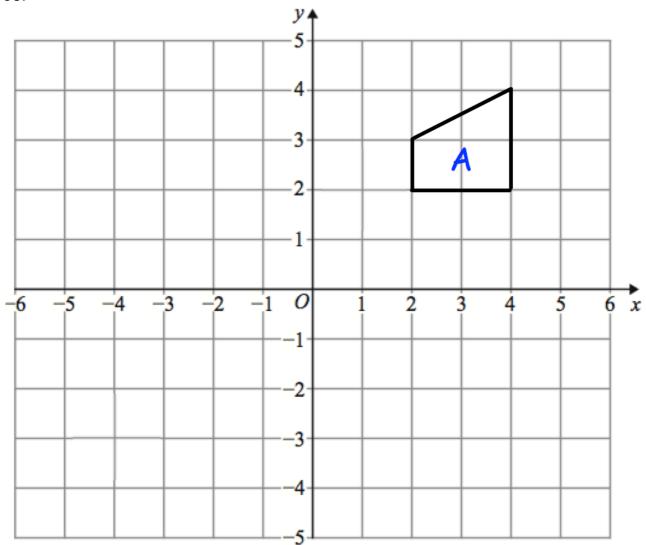


Work out 2a + b

(3)



Reflect shape A in the line x = 4Label the new shape B.

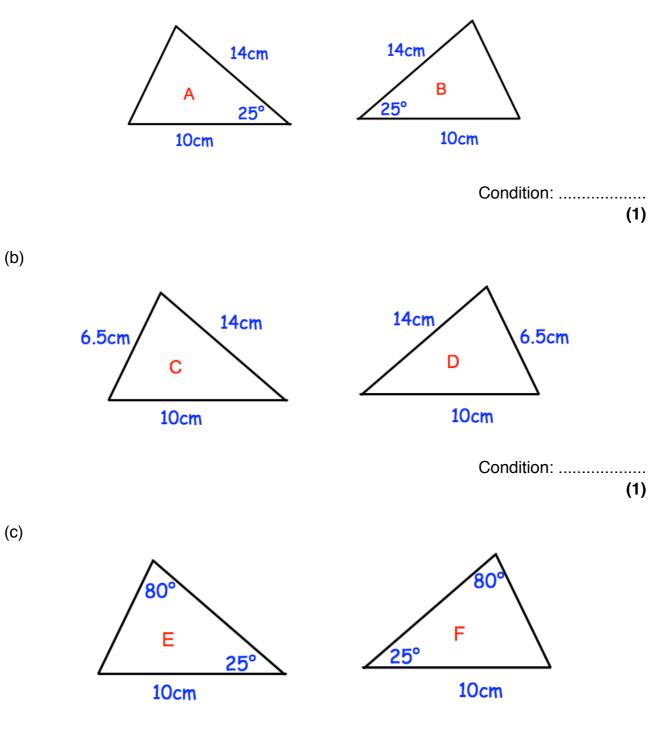


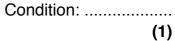
Rotate shape A 180° about centre (-1, 2)

(3)

99. For each pair below, state the condition why they are congruent.

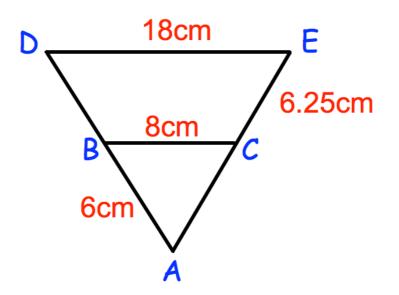






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Not drawn accurately



Triangle ABC is similar to triangle ADE.

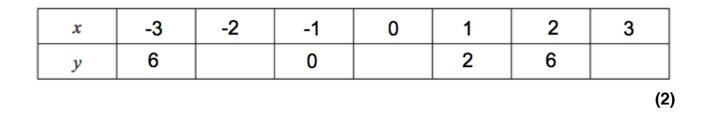
- AB = 6cmBC = 8cmCE = 6.25cmDE = 18cm
- (a) Work out the length of DB.

.....cm (3)

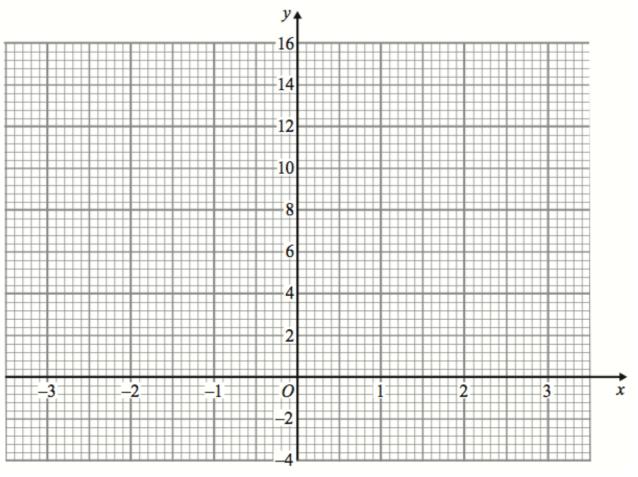
(b) Work out the length of AC.

.....cm (3)

101. (a) Complete the table of values for  $y = x^2 + x$ 



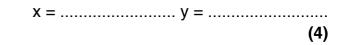
(b) On the grid, draw the graph of  $y = x^2 + x$  for the values of x from -3 to 3.



102. Solve the simultaneous equations

$$3x + 5y = 1$$
  
 $2x - 3y = 7$ 

Do not use trial and improvement



103.



(a) Work out the value of v when u = 4 and t = 3

v = .....(2)

(b) Make *u* the subject of the formula

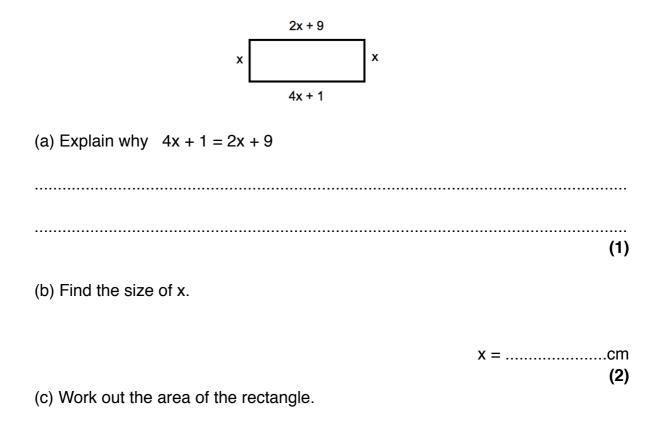
## v = u + 10†

(c) Make t the subject of the formula



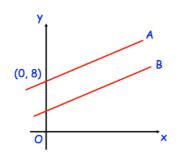
t = .....(2)

104. A rectangle is shown below.



• •	 	•	•	-			•	•		•	C	)	n	n	2	2
												(	(2	2	)	)

105.



The lines A and B are parallel.

The line A passes through the point (0, 8)The line B has equation y = 3x + 1

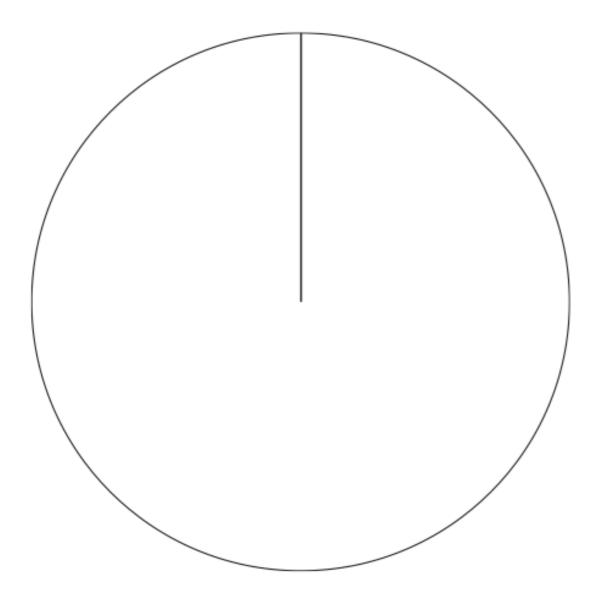
Write down the equation of line A

.....

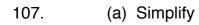
## 106. The table gives information about the dogs in a village

Breed	Frequency
Spaniel	11
Poodle	7
Greyhound	4
Jack Russell	14

Draw an accurate pie chart to show this information.



(4)



 $m^5 \times m^3$ 

.....(1)

(b) Simplify

$$m^8 \div m^2$$

.....(1)

(c) Simplify

$$(m^3)^2$$

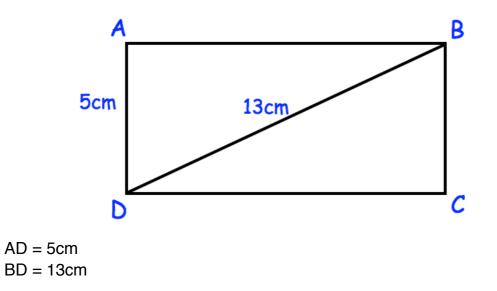
.....(1)

108. Write down the exact value of  $\cos 60^{\circ}$ 

.....(1)

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109. Below is rectangle, ABCD



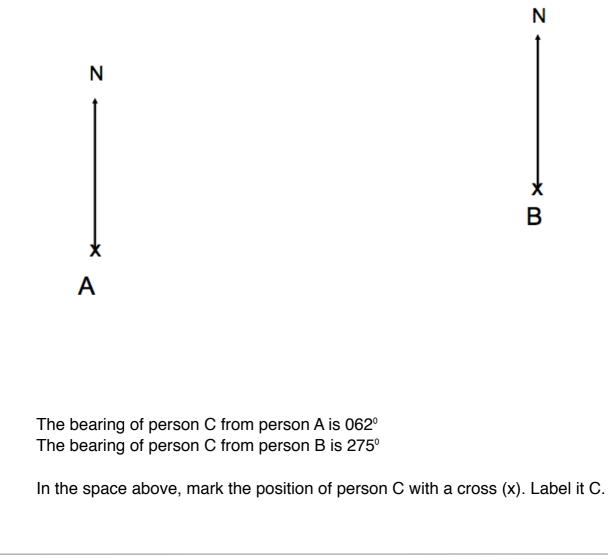
Calculate the perimeter of rectangle ABCD

.....cm (3)

110. A circle has an area of  $64\pi$  cm<sup>2</sup>

Work out the radius of the circle.

.....cm (2) 111. The diagram shows the position of two people, A and B, who are on their Duke of Edinburgh expedition.





Calculate the area of the trapezium.

.....cm² (2)

(3)