

#### Question 11

#### (suggested maximum time: 5 minutes)

The number of children born in the Irish Republic each year from 1999 to 2009 is given in the table below.

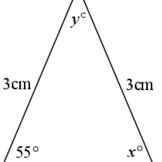
Year	Number
	Of Births
1999	53924
2000	54789
2001	57854
2002	60503
2003	61529
2004	61972
2005	61372
2006	65425
2007	71389
2008	75056
2009	74728

- (a) How many children were born in 2005?
- (b) In which years did the birth rate decrease? \_\_\_\_\_\_ and \_\_\_\_\_
- (c) In which year did the largest increase take place?

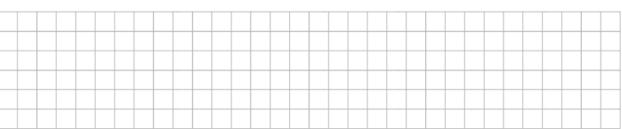
(e) Comment on the trend in birth rate in Ireland from 1999 to 2009.

Look at these five shapes and complete the sentences below.

	A B C D E
(a)	Shape is the only shape with three sides.
(b)	Shape is the only one with no right angles.
(c)	Shape is the only one with no lines of symmetry.
(d)	Shape B is the only shape with four
(e)	Shape could be formed by joining together two copies of shape
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- (i) Write down the value of x.
- x = \_\_\_\_\_
- (ii) Find the value of  $y_{.}$



y =

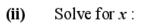
(a) Explain what it means to say that a triangle is *equilateral*.

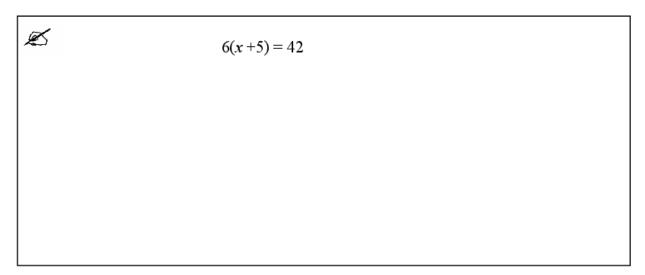
(b) Construct a triangle ABC with |AB| = 8 cm, |BC| = 8 cm and |AC| = 8 cm. Show all your construction lines.

A 8 cm B

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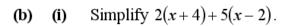
# (c) (i) Simplify 3(x+5)+2(x-4).





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4. (a) Find the value of 3a + 2b, where a = 4 and b = 5.





(ii) Solve for x:

