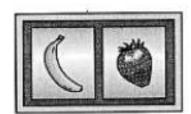
1	Wor	k out.			
	(a)	√81			
				(a)	[1]
	(b)	43			
				(b)	[1]
					2]
2	(a)	Here is a rule to get from one term of a se	equence to the next term.		
		Mult	iply by 2		
		The first term is 1.			
		Calculate the fourth term of this sequence			
				(a)	[2]
	(b)	The n^{th} term of another sequence is $10n + 10n = 100$	· 4.		
		Write down the first two terms of this seq	juence.		
				(b)	[2]
	(c)	Write down a number which is in both se Show your working.	quences.		
				(c)	[2]
					[6]
					10.101

3 A machine has two rotating drums. The first drum has four fruit symbols, apple (A), banana (B), melon (M) and strawberry (S). The second drum has three fruit symbols, apple (A), peach (P) and strawberry (S).



(a) Complete the table below to show all the possible pairs of fruit symbols when the drums stop. The first two have been done for you.

You may not need to use all the lines.

First drum	Second drum
Α	A
Α	P
	Japan

(b) Each pair of symbols is equally likely.

What is the probability of getting a pair of matching symbols?

(b)	[1]
	(3)

[2]

	Sol	Live .
4	100	10/1/2

(a)
$$\frac{x}{2} = 7$$

(a).....[1]

(b)
$$12 = 5x$$

(c)
$$2x - 1 = 8$$

e).....[2]

5 (a) Write 15% as a dec	lami

(a)	1	1
(#)		J

(b) Four of these fractions are equivalent to each other.

$\frac{30}{40}$	45	18	24	15
	60	$\frac{18}{24}$	$\frac{24}{30}$	$\frac{15}{20}$

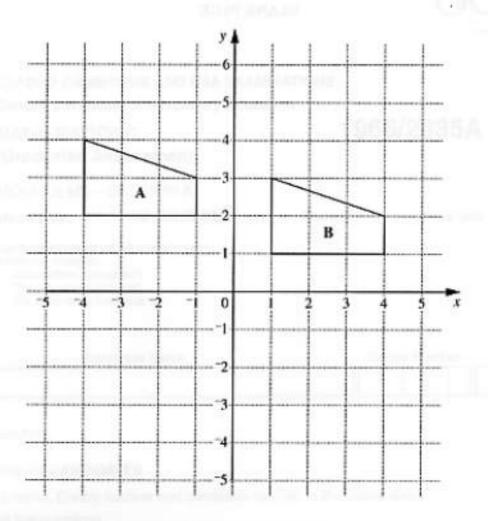
Which fraction is the odd one out? Show how you decide.



(i)
$$\frac{5}{17} + \frac{1}{17}$$

(ii) $\frac{7}{8} - \frac{1}{4}$

6



(a) Describe the translation which moves shape A to shape B.

[1

(b) Rotate shape A half a turn about the origin. Label the image C.

[3]

9