1	Work out.

(a) 1.5 × 5

(b) $8.4 \div 2$

(c) $(1.5 - 0.3) \div 10$

(a)[1

(b)[1]

(c).....[2]

21

2	This is one of the world's largest video screens.
	It is rectangular and is 45 m wide and 15 m high.

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Int	***************************************		
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(b) (i) Make a scale drawing of the video screen. Use a scale of 1 cm to 5 m.

	19					

(ii) Draw a diagonal on your scale drawing.

What is the real length, in metres, of the diagonal of the video screen?

(b)(ii).....m [2]

SEASON NAME OF TAXABLE PARTY.

(e) Video advertising boards can be over 30 feet tall. Approximately how many metres are there in 30 feet?

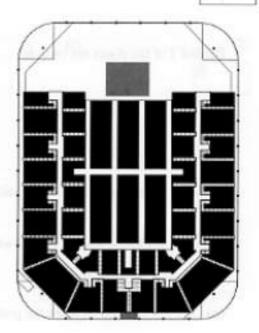


(c)n	111
** Forest trees	

7

- 3 The Sheffield Arena holds 12500 people when it is full.
 - (a) At a concert, all 12 500 tickets are sold. Each ticket costs £10.

How much money is this altogether?



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4011	-	

(b) How many people does the Sheffield Arena hold when it is a quarter full?

(b)[2]

31

4 In a computer adventure game, Ira has to pick one of six doors to open.

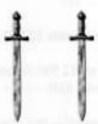


There is a single item behind each door.

Behind 3 of the doors are dragons.



Behind 2 of the doors are swords.



Behind I of the doors is a bag of gold.



She does not know what is behind which door.

She opens a door at random.

(a) On the line below, mark the probability that there is a dragon behind the door.

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(b) What is the probability that there is a bag of gold behind the door?

(b)[1]

(c) What is the probability that there is a wizard behind the door?

(c).....[1]

33

(a)	The	Earth's surface is either sea or land.	CICK
	(i)	About 70% of the Earth's surface is sea.	
		About what percentage is land?	
			(a)(i)% [1]
	(ii)	The area of the Earth is 200 million square miles. The Atlantic Ocean covers 15% of the Earth's surface.	
		What is 15% of 200 million square miles?	
2011	12200		million square miles [2]
(b)	Use	this rule to change 300 square miles into square kilometr	es.
		"To change square miles into square kilometres multiply by five and divide the result by two."	
			131 793
		(b)	square kilometres [2]
(c)	This	ssure increases the deeper you go down into the sea. s formula connects pressure P (atmospheres) the depth d (metres).	
		$P = 0.1 \times d + 1$	
	Wha	at is the pressure at a depth of 10 m?	
			(e)atmospheres [2]
(d)	Part	s of the Pacific are 11 kilometres deep.	
	Wha	at is this depth in metres?	
			(d)m [1]
			[8]