SMART EXAM RESOURCES
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STAGE 7 MATHEMATICS
TOPIC QUESTIONS
TOPIC: PERCENTAGES
SET-1

1 In a 1.65 hectare area of land, 26% is covered by buildings.

Calculate the area of land, in hectares, covered by buildings.

.... hectares   [1]

Mark Scheme:

Part	Mark	Answer	Further Information
	1	(0).429 (hectares)	
Total	**1**		

2 Write the missing numbers in the boxes to make the statements correct.

(a) 15% of $40 = \dfrac{1}{5}$ of $\boxed{}$ [1]

(b) $\boxed{}\%$ of $150 = \dfrac{2}{3}$ of 90 [1]

Mark Scheme:

(a)	30	1	
(b)	40	1	

3   40% of a number is 80

    Find 55% of this number.

    .... [2]

Mark Scheme:

110	2	
$80 \times \dfrac{11}{8}$ oe	M1	Or equivalent, e.g. $\dfrac{80 \times 55}{40}$, 200×0.55

4 Write the missing numbers in the boxes.

$\boxed{}$ % of 250 = 75

75% of $\boxed{}$ = 300

[2]

Mark Scheme:

		2	
30 **and** 400			
One correct answer		**B1**	

5   A hotel has 250 rooms.
175 rooms are occupied.
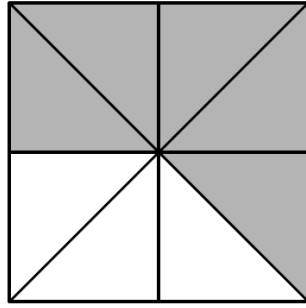
Calculate the percentage of the rooms that are occupied.

.... % [2]

Mark Scheme:

70 (%)	**2**	
Sight of $\dfrac{175}{250}$ (oe) or $175 \div 250$	M1	

6   The diagram shows a square split into congruent triangles.

Work out the percentage of the square that is shaded.

_____% [1]

Mark Scheme:

62.5 [%]		1	Accept $62\frac{1}{2}$ [%]