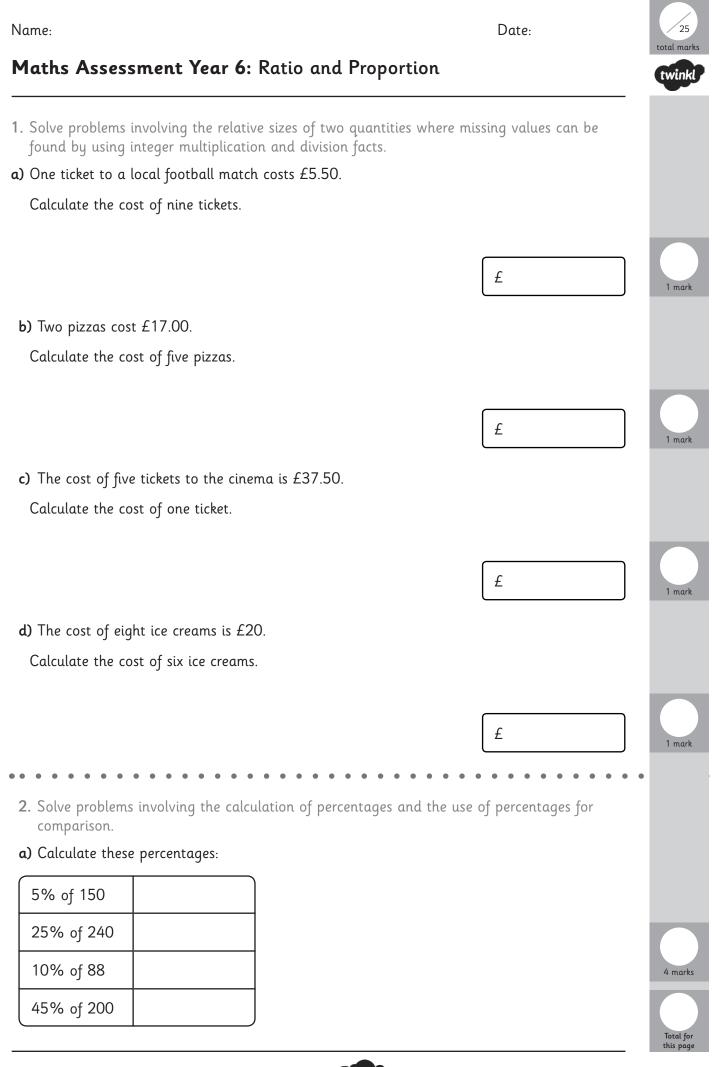
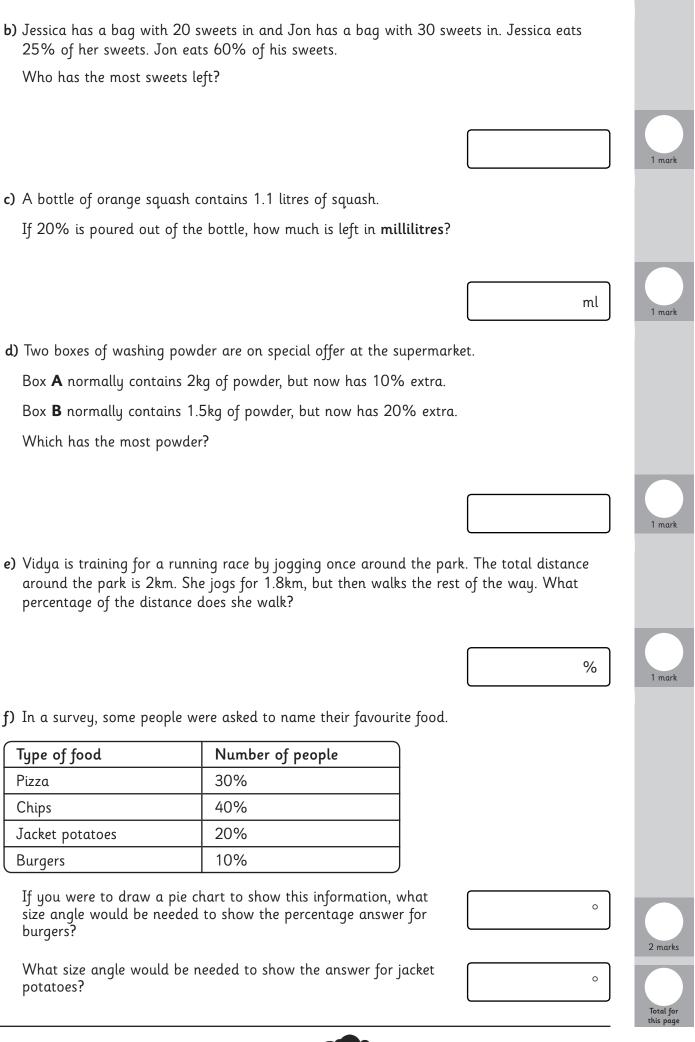


Maths Assessment Year 6: Ratio and Proportion

- 1. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- 2. Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
- 3. Solve problems involving similar shapes where the scale factor is known or can be found.
- 4. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.



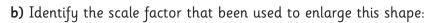


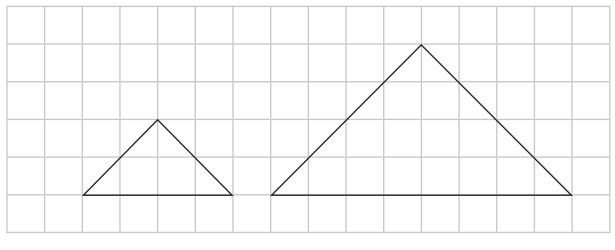


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3. Solve problems involving similar shapes where the scale factor is known or can be found.

a) Identify the scale factor that been used to enlarge this shape:







1 mark

1 mark

c) Enlarge this shape by a scale factor of 3.



d) Enlarge this shape by a scale factor of 2.

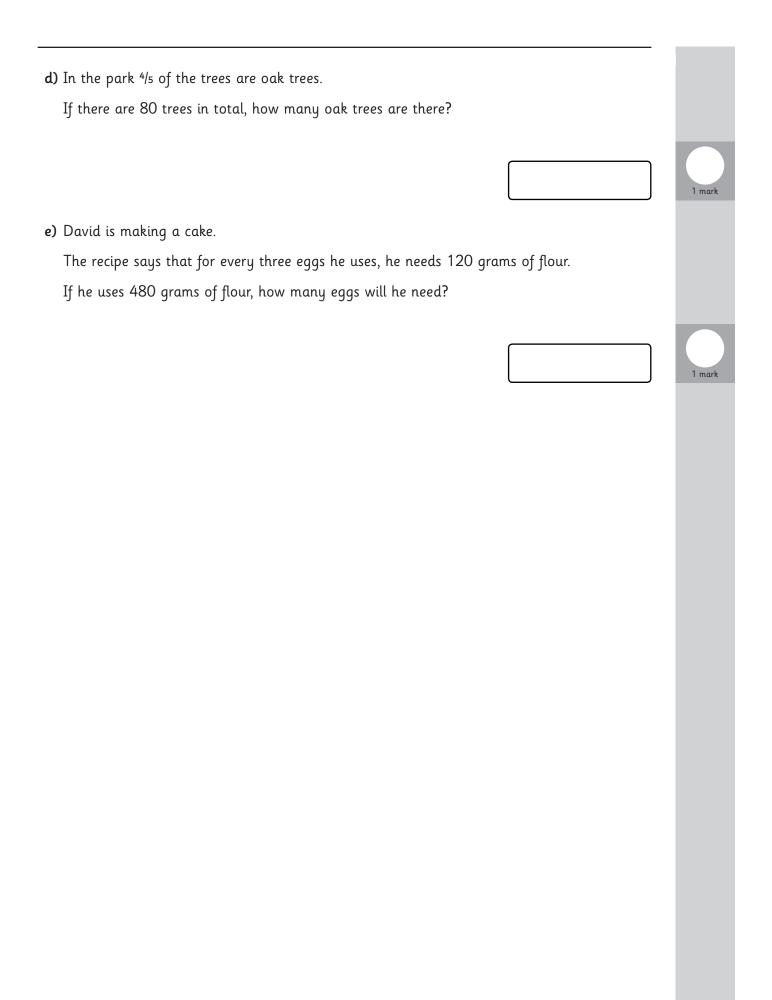
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e) The length of a rectangle measures 8 cm. What would the measure the shape was enlarged by a scale factor of 4?	ement of the length be if	
		1 mark
f) Square A has been enlarged to create Square B.		
Square A's lengths each measure 9 cm.		
Square B 's lengths each measure 45 cm.		
What scale factor has been used to enlarge Square A?		
		1 mark
4. Solve problems involving unequal sharing and grouping using knowl multiples.	edge of fractions and	
a) In a packet of sweets, for every 3 orange sweets there are 4 green	sweets.	
If there are 6 orange sweets, how many greens sweets would there	be?	
		1 mark
		1 mark
b) In a class of 30 children, 25 children are girls and the rest are boy	S.	
What is the ratio of girls to boys?		
		1 mark
		T Hark
c) On the farm, 1 in 4 animals is a sheep.		
If there are 120 animals in total, how many sheep are there?		
		1 mark
		Total for this page

6









question	answer	marks	notes						
1. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.									
a	£49.50	1							
b	£42.50	1							
С	£7.50	1							
d	£15.00	1							
2. Solve pro	blems involving the calculation of percentages and the use of percent	ages for	comparison.						
a	5% of 150 7.5 25% of 240 60 10% of 88 8.8 45% of 200 90	4	Award one mark for each correct answer.						
b	Jessica	1							
С	880 ml	1							
d	Box A	1							
е	10 %	1							
f	36° 72°	2	Award one mark for each correct answer.						
3. Solve pro	blems involving similar shapes where the scale factor is known or car	n be foun	d.						
а	3	1							
b	2	1							
C		1							



question	answer	marks	notes
d		1	
e	32 cm	1	
f	5	1	
4. Solve pro	blems involving unequal sharing and grouping using knowledge of frac	tions and	multiples.
а	8	1	
b	5:1	1	
с	30	1	
d	64	1	
e	12	1	
		Total 25	

