



THIRD SPACE
LEARNING

GCSE Exam Questions

One Number as a Percentage of
Another | Number

GCSE Exam Questions: One Number as a Percentage of Another

1) Non-calc: There are 30 children in a class.

24 of the children have a packed lunch.

What percentage of children have a packed lunch?

(2)

2) Calc: Ayesha buys a pack of 12 bottles of drink.

The pack costs £3.92.

She sells all 12 bottles for 40p.

Work out her percentage profit.

Give your answer correct to 1 decimal place.

(3)

3) Calc: Amelia scored 38 out of 65 in a Biology test.

She scored 40 out of 70 in a Chemistry test.

She scored 55 out of 90 in a Physics test.

In which test did Amelia score the highest percentage?

You must show your workings.

(3)

GCSE Exam Questions: One Number as a Percentage of Another

	Question	Answer	Marks
1)	Non-calc: There are 30 children in a class. 24 of the children have a packed lunch. What percentage of children have a packed lunch?	$\frac{24}{30}$ $\frac{24}{30} = \frac{8}{10} = \frac{80}{100} = 80\%$	(1) (1)
2)	Calc: Ayesha buys a pack of 12 bottles of drink. The pack costs £3.92. She sells all 12 bottles for 40p. Work out her percentage profit. Give your answer correct to 1 decimal place	$12 \times 40 = 480\text{p} = \text{£}4.80$ $\frac{4.80 - 3.92}{3.92} \text{ oe}$ $0.2244... \times 100 = 22.4\%$	(1) (1) (1)
3)	Calc: Amelia scored 38 out of 65 in a Biology test. She scored 40 out of 70 in a Chemistry test. She scored 55 out of 90 in a Physics test. In which test did Amelia score the highest percentage? You must show your workings	<p>Biology $\frac{38}{65} \times 100 = 58.46...\%$</p> <p>Chemistry $\frac{40}{70} \times 100 = 57.1...\%$</p> <p>Physics $\frac{55}{90} \times 100 = 61.1...\%$</p> <p>Amelia scored the highest percentage in Physics.</p>	(1) (1) (1) (1)

Where to go next?

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