



THIRD SPACE
LEARNING

GCSE Exam Questions

Factors, Multiples and Primes |
Number

GCSE Exam Questions: Factors, Multiples and Primes

1) (a) Write down a multiple of 11 between 50 and 100.

(1)

(b) Write down two factors of 105 that are prime numbers.

----- and -----
(2)
(3 marks)

2) Find the lowest common multiple of 16 and 20.

(2 marks)

3) (a) Patrick is making hot dogs for a party. Bread rolls are sold in packs of 6 and hot dog sausages are sold in packs of 8. Patrick wants to buy enough to make between 110 and 130 hot dogs with no leftovers.

How many of each item should he buy?

----- packs of bread ----- packs of sausages
(5 marks)

GCSE Exam Questions: Factors, Multiples and Primes

- 4) Find the highest common factor of $30x^2y$ and $45x^2y^3$.

(2 marks)

GCSE Exam Questions: Factors, Multiples and Primes Answers

	Question	Answer	Marks
1) (a)	Write down a multiple of 11 between 50 and 100.	(a) One from: 55, 66, 77, 88, 99	(1)
(b)	Write down two factors of 105 that are prime numbers.	(b) Any one of 3, 5, 7 Both correct	(1) (1)
2)	Find the lowest common multiple of 16 and 20.	(a) 16, 32, 48, 64, 80, ... and 20, 40, 60, 80, ... or $16 = 2^4$, $20 = 2^2 \times 5$ oe LCM = 80	(1) (1)
3)	Patrick is making hot dogs for a party. Bread rolls are sold in packs of 6 and hot dog sausages are sold in packs of 8. Patrick wants to buy enough to make between 110 and 130 hot dogs with no leftovers. How many of each item should he buy?	$6 = 2 \times 3$ or $8 = 2 \times 2 \times 2$ LCM = 24 Multiples of 24: 24, 48, 72, 96, 120, ... 120 hot dogs $120 \div 6 = 20$ or $120 \div 8 = 15$ 20 packs of bread and 15 pack of sausages	(1) (1) (1) (1) (1)
4)	Find the highest common factor of $30x^2y$ and $45x^2y^3$.	(a) 15 or x^2y $15x^2y$	(1) (1)

Where to go next?

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