## YR5 PROGRESSION IN MASTERY LESSON PACK - COMMON FACTORS

## FLUENCY 1

Complete the statement.

A common factor is a number that $\qquad$ exactly into two or more numbers.

## FLUENCY 2

Complete the diagrams to find the common factors.


## FLUENCY 3

Look at the number cards below.


Which three numbers share these common factors?

$$
4 \quad 2 \quad 6 \quad 3
$$

## FLUENCY 4

Alfie and Caleb collect marbles.
Alfie has 30 marbles and Caleb has 42.
They are sorting their marbles into the same sized equal groups.

What is the highest number of marbles they can put into each of their groups?


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## REASONING 1

Jane and Anita are discussing common factors.


Who is correct? Explain your reasoning.

## REASONING 3

Always, Sometimes or Never?
"If two numbers are even, they will have an even number of common factors."

Prove your answer with examples.

## REASONING 4

Ranjit is finding the common factors of 16 and 24.

## REASONING 2

True or false?

There are only 2 -digit numbers that have the common factors $1,2,3,6,9$ and 18.


Explain the mistake he has made.

Convince me.
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## YR5 PROGRESSION IN MASTERY LESSON PACK - COMMON FACTORS

PROBLEM SOLVING 1
A book shop is celebrating their opening weekend by giving out gifts to customers.


- Every second customer will receive a free bookmark.
- Every sixth customer will receive a $10 \%$ off voucher.
- Every ninth customer will receive a free book.

How often will a customer receive all 3 gifts?

Can you write your own word problem for a friend using your knowledge of common factors?

PROBLEM SOLVING 2
Use the cards to complete the statement.


How many possibilities can you find?
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