



YR5 PROGRESSION IN MASTERY LESSON PACK - FACTORS

FLUENCY 1

Complete the statements.

A factor is a number that you _____ by another number to make a product.

A factor is a number that _____ exactly into another number.

FLUENCY 2

Match the numbers to their factors.

16

27

12

20

14

5

6

7

8

9

FLUENCY 3

How many people could share...



18 cookies equally?

36 cookies equally?

42 cookies equally?

FLUENCY 4

Complete the statements.

Any number which has 8 as a factor also has _____ and _____ as factors.

Any number which has 10 as a factor also has _____ and _____ as factors.





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REASONING 1

Which number is the odd one out?

Convince me.

30	3	5
15	10	1
2	6	4

REASONING 2

Anita has been learning about factors.



If a number is a factor of 22, it must also be a factor of 44, 66 and 88.

Do you agree with her?

Explain your reasoning.

REASONING 3

Always, Sometimes or Never?

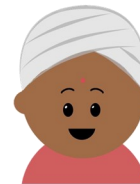
“Factors come in pairs so all numbers have an even number of factors.”

Prove your answer with examples.

REASONING 4

Ranjit has a pack of number cards from 1-20.

He chooses four of the cards.



Three of the cards are factors of 24.

Two of the cards are odd.

The total of the cards is less than 30.

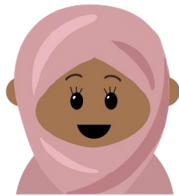
Prove what cards Ranjit could have picked.





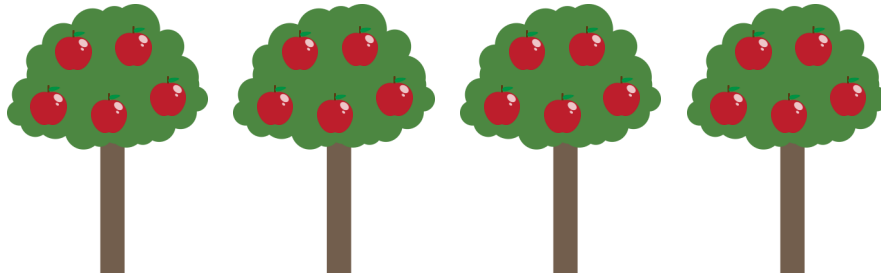
PROBLEM SOLVING 1

Asha is planting apple trees in her garden.



She has 48 trees to plant altogether.
She wants to plant them in arrays.

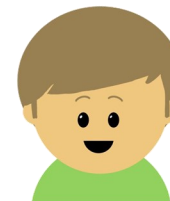
Find all the ways that Asha could plant the trees.



PROBLEM SOLVING 2

6 is known as a 'perfect' number.

This means that 6 is equal to the
sum of its factors (not including itself).



$$1 + 2 + 3 = 6$$

There is one more perfect number less than 30.
Can you find it?

