## Factors, Multiples and Prime Numbers

I can identify common factors, common multiples and prime numbers.

1) a) What is the highest common factor of 24 and 36 ?
b) What is the highest common factor of 21 and 54?
$\qquad$
$\qquad$
c) What is the highest common factor of 19 and 48 ? $\qquad$
2) Work out the lowest common multiple of each pair of linked numbers.

2 and 6
6 and 10
6 and 12
2 and 10 $\qquad$
10 and 12 $\qquad$
2 and 12 $\qquad$

Which pairs of numbers have the same lowest common multiple?
3) Oh no! The maths machine has broken!

Can you help identify the prime numbers by circling the correct balls?

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| Question | Answer |
| :---: | :---: |
| 1. |  |
|  | a) What is the highest common factor of 24 and 36 ? 12 <br> b) What is the highest common factor of 21 and 54 ? 3 <br> c) What is the highest common factor of 19 and 48? I |
| 2. | Work out the lowest common multiple of each pair of linked numbers. |
|  | 2 and $6 \underline{6}$ 2 and $10 \underline{10}$ <br> 6 and $10 \underline{\mathbf{3 0}}$ 10 and $12 \underline{\mathbf{6 0}}$ <br> 6 and $12 \underline{\mathbf{1 2}}$ 2 and $12 \underline{\mathbf{1 2}}$ <br> Which pairs of numbers have the same lowest common multiple? 6 and 12,2 and 12 |
| 3. | Oh no! The maths machine has broken! Can you help identify the prime numbers by circling the correct balls? |
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