

Week beginning 12.10.20

Maths

This week we are looking at squared and cubed number and order of operations.

Please complete the lessons on the following link

<https://whiterosemaths.com/homelearning/year-6/week-7-number-addition-subtraction-multiplication-division/>

**Complete only the lesson about square and cube numbers**

Monday

1)

3 cubed      4 squared

8 squared      4 cubed

11 squared      5 cubed

2)

|       |              |    |       |                       |    |
|-------|--------------|----|-------|-----------------------|----|
|       |              |    |       |                       |    |
|       |              |    |       |                       | 8  |
|       | $3 \times 3$ |    | $3^3$ |                       | 27 |
|       | $4 \times 4$ |    |       | $4 \times 4 \times 4$ |    |
|       |              | 25 | $5^3$ |                       |    |
|       |              |    |       | $6 \times 6 \times 6$ |    |
|       |              |    |       |                       |    |
| $8^2$ |              |    |       |                       |    |

3)

True or false?

'Odd square numbers greater than 1 have three factors.'

4)

Place 5 odd and 5 even numbers in the table.

|             | Not Cubed | Cubed |
|-------------|-----------|-------|
| Over 100    |           |       |
| 100 or less |           |       |

Tuesday

Please complete the lessons on the following link

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**Complete only the lesson about order of operations**

1) Solve following questions

$$3 \times 2 + 5 =$$

$$3 + 2 \times 5 =$$

$$3 \times 5 + 2 =$$

$$20 \times 12 - 3 =$$

$$20 + 20 \times 2 =$$

$$10 \times 2 \times 3 =$$

2)

Can you write BODMAS Statements that equal 23?

### Wednesday

1)

$$3 + 2 \times 10 =$$

$$3 + (2 \times 10) =$$

$$(3 + 2) \times 10 =$$

$$5 \times 12 - 8 =$$

$$5 \times (12 - 8) =$$

$$(5 \times 12) - 8 =$$

$$4 + 8 \times 2 =$$

$$4 + (8 \times 2) =$$

$$(4 + 8) \times 2 =$$

2)

A4 paper costs £3 per pack, A3 paper costs £5 per pack.

Mr Lopez needs to buy 12 packs of A4 paper and 12 packs of A3 paper. How much does that cost?

### Thursday

1)

$$8^2 + (11 - 3) =$$

$$4 \times 2 + 3^2 =$$

$$24 \div 2 - 2^2 =$$

2)

Write different number sentences using the digits 3, 4, 5 and 8 before the equals sign that use:

One operation (eg  $58 - 24 = 24$ )

Two operations with no bracket (eg  $58 + 3 \times 4 = 60$ )

Two operations with brackets (eg  $5(8-3) + 4 = 29$ )

A squared or cubed number

What is the largest number you can make when using a power in your calculation??

What is the smallest number you can make using a power in your calculation?

Can you make a prime number?

Friday

Write down the number 4, four times.

Put operation symbols between them so that you have a calculation.

So you might think of writing  $4 \times 4 \times 4 - 4 = 60$

**BUT use operations so that the answer is 12**

Now, can you redo this so that you get 15, 16 and 17 for your answers?

Need more of a challenge? Try getting answers all the way from 0 through to 10.

Follow this link for more information

<https://nrich.maths.org/1081>