

Year 6

Number Awareness

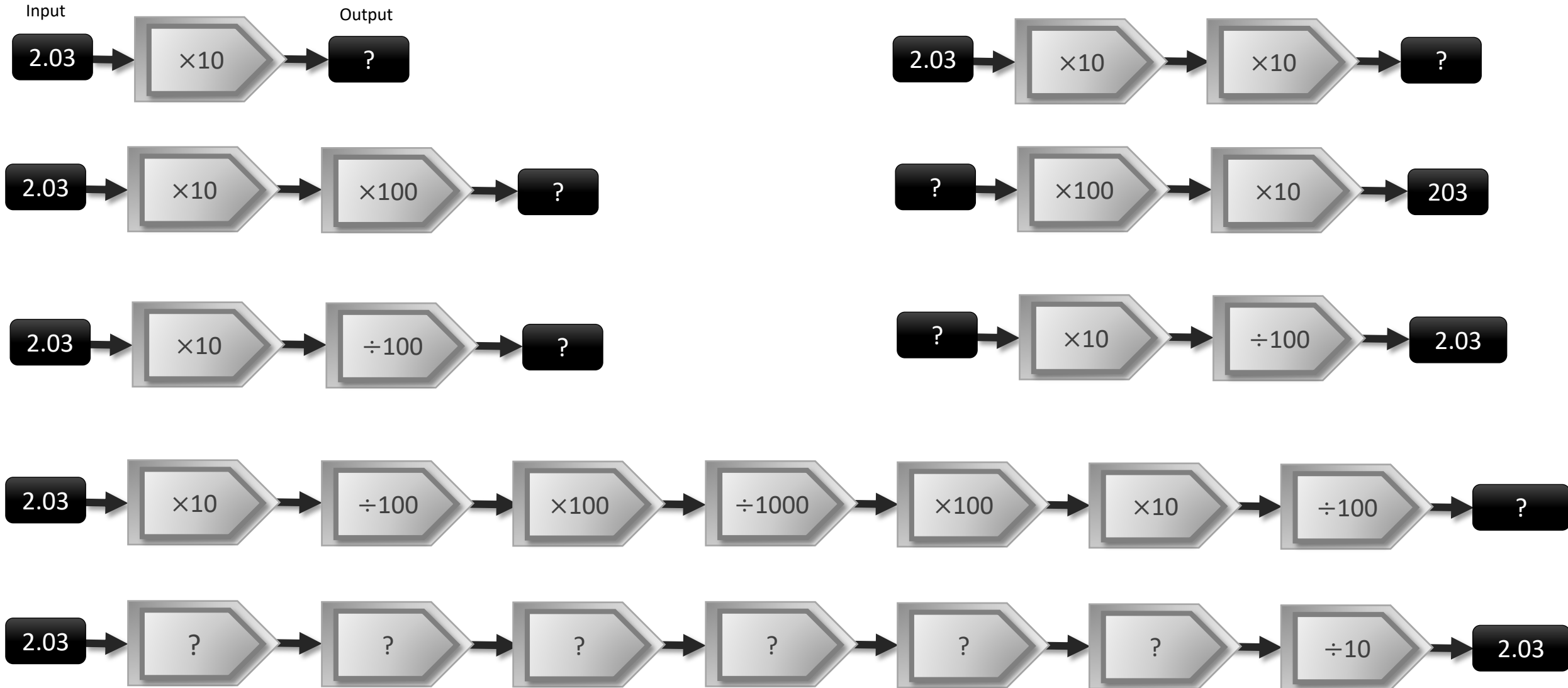
Week 6

10,100,1000 etc

Notes for teachers in school or at home:

- Investigate and explore the numbers based on 10:
 - Thousand, million, billion...
- Multiply and divide by 10, 100 and 1000
- Explore metric measures
- Understand simple fractions of large numbers

And again, and again, and again...



Enormous numbers

Million

1 million equals
 $10 \times 10 \times 10 \times 10 \times 10 \times 10$

googol

trillion

What number names do you know?

Investigate how to multiply by 10 to make these numbers

quadrillion

quintillion

billion

Measures!

How far is 1 million millimetres?

Which is heavier:
1 thousand kilograms or 1 million
grams?

Is 1 million seconds longer than a
year?

How many 10p coins would make
£1 million?

How many 2p coins?

Which is longer: 2 million metres
or 1 million inches?

Is there anything that weighs one
million grams?

Fractions of large numbers

Find matching
pairs

Half a
million

1.5
million

1,000,000

$\frac{1}{4} \times 1$ million

1,250,000

500,000 +
250,000

Three-quarters
of a million

500,000

25% of 4 million

250,000

1,500,000

1.25
million

Conjectures

1,000,000 a square number

100 is a square number so 1,000 is a square number

1 million is odd
2 million is even

Decide if you agree or disagree.
What reasons would you give?

-1,000,000.5 is greater than -999,999.5

20% of 20 thousand is 1 thousand

The difference between -1 million and -2 million is 3 million