

06.10.20

LO: I can order a set of decimals to 3 dp.

Arrange these numbers in ascending order.

What does ascending mean?

2·32, 2, 2·232, 2·3.

Write in columns

2·32

2

2·232

2·3

Put in the zeros. Why?

To hold place value of course.

2·320

2·000

2·232

2·300

Now arrange in order

2, 2·232, 2·3, 2·32

Now it's your turn;

a) $1\cdot53$, $3\cdot15$, $1\cdot33$, $1\cdot35$.

b) $5\cdot61$, $6\cdot51$, $15\cdot6$, $5\cdot16$.

c) $2\cdot78$, $0\cdot78$, $2\cdot07$, $0\cdot87$.

d) $7\cdot23$, $7\cdot33$, $7\cdot22$, $7\cdot32$.

Have a go at these numbers;

a) $3\cdot37$, $3\cdot77$, $3\cdot337$, $3\cdot377$, $3\cdot737$.

b) $6\cdot446$, $6\cdot66$, $6\cdot44$, $6\cdot664$, $6\cdot4$.

c) $2\cdot55$, $2\cdot225$, $2\cdot522$, $2\cdot25$, $2\cdot525$.

d) $9\cdot989$, $9\cdot898$, $9\cdot888$, $9\cdot99$, $9\cdot89$.

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LO: I can subtract numbers mentally.

We are going to look again at mental strategies to help us subtract, increasingly larger, numbers from one another.

I want to solve the subtraction $456 - 76$.
How might I do this?

Partitioning.

$$456 - 76 = 456 - 70 - 6$$

$$456 - 70 \quad \text{or } 7 \text{ tens} = 386$$

$$386 - 6 = 380$$

How about,

$$1576 - 239$$

$$1576 - 200 \text{ or } 2 \text{ hundreds} = 1376$$

$$1376 - 30 \text{ or } 3 \text{ tens} = 1346$$

$$1346 - 9 \text{ or } 9 \text{ units} = 1337.$$

Think about counting up in your head.

$$603 - 387$$

$$387 \text{ — } 400 = 13$$

$$400 \text{ — } 603 = 203$$

$$203 + 13 = 216.$$

How would I solve a number calculation such as

$$6134 - 2002$$

I would use the counting up method. If I count up from 2002 in thousands I reach 6002 (4000) and then count up to 6134. That gives me 132 and if I add this to 4000 then I find the solution 4132.

What if I was looking at the
mathematical problem of $7863 - 1995$,

Counting up from 1995 I add 5 to reach
2000. I add on 5863 to reach 7863,
finally adding the 5 to bridge the gap.
This gives me the solution, worked out
mentally, of 5868.

PLENARY

True or False?

$$49,999 - 19,999 = 50,000 - 20,000$$



Dora

I did not need to use a written method to work this out.

Can you explain why Dora's method work?

Can you think of another example where this method could be used?

