

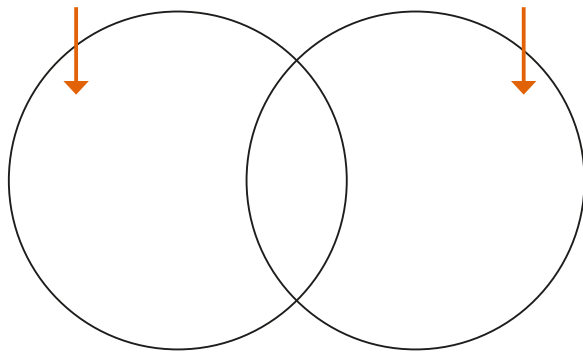
- Use a 100 square.
Shade all the multiples of 9
Circle all the multiples of 6
List any common multiples of 9 and 6

- Write the numbers in the sorting diagram.

25 30 16 20 24 60 75 40

multiples of 5

multiples of 4



- Write all the common multiples of 4 and 5 from the list.
- Look at the common multiples of 4 and 5 from part b).
What do you notice?
Describe how to find more common multiples to add to this list.
Would you ever run out of common multiples?



- Continue the lists of multiples.

Multiples of 5

5, 10, 15, , , , , , ,
, , , ,

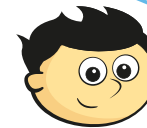
Multiples of 7

7, 14, 21, , , , , , ,
, , , ,

- What are the common multiples of 5 and 7?

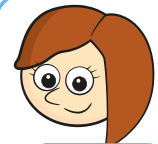
4

I worked out the common multiples of 4 and 6 by multiplying 4 and 6 together to get 24. Then I added on 24 again and again: 24, 48, 72 . . .



Jack

I think your method might miss some common multiples.



Rosie

Who do you agree with and why?

- Write the first five common multiples of these numbers.

- 2 and 3
- 3 and 12
- 15 and 10



- 3 a) Continue the lists of multiples.

Multiples of 5

5, 10, 15, , , , , , ,
, , , ,

Multiples of 7

7, 14, 21, , , , , , ,
, , , ,

- b) What are the common multiples of 5 and 7?

4

I worked out the common multiples of 4 and 6 by multiplying 4 and 6 together to get 24. Then I added on 24 again and again: 24, 48, 72 . . .



Jack

I think your method might miss some common multiples.



Rosie

Who do you agree with and why?

- 5 Write the first five common multiples of these numbers.

- a) 2 and 3
- b) 3 and 12
- c) 15 and 10

6

Rita has two grandchildren in different years at school.

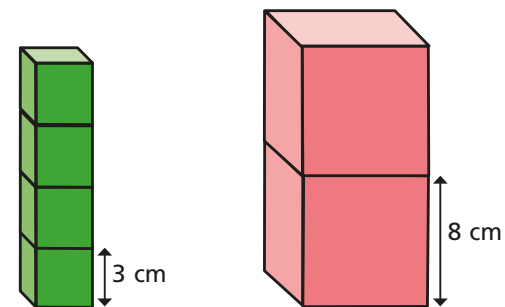
On Rita's 90th birthday she says to her grandchildren,

“My age is a multiple of both your ages today.”

How old could Rita's grandchildren be?

Describe two different solutions.

7



Scott is building a tower from blocks 3 cm tall.

Dora is building a tower from blocks 8 cm tall.

They each build a tower taller than 50 cm, but shorter than 1 m.

The towers are exactly the same height.

How tall could the towers be?