

Name: _____

Date: _____

LO: To use sequences to scale numbers up or down. (bronze)

1. For every 2 eyes, there is 1 nose.

Nose	1	2	3	4	5
Eyes					

How many eyes are there when there are 6 noses? _____

2. For every table, there are 2 chairs.

Table	1	2	3	4	5			
Chairs								

If there are 14 chairs in the classroom, how many tables are there?

3. For every teacher on a school trip, there are 10 children.

Teacher	1	2	3	4	5
Children					

If there are 3 teachers, how many children are there? _____

4. In PE, the children must get into groups to do a dance. Each group has 3 boys and 6 girls.

Boys	3	6			
Girls	6				

How many boys must there be if there are 18 girls? _____

Name: _____

Date: _____

5. To make chocolate chip cookies, you must have 200g of flour for every 100g of butter.

Butter	100	200			
Flour	200				

If I use 600g of flour, how much butter do I need? _____

6. In my box of chocolates, four chocolates in every ten are caramel.

Caramel	4				
Not caramel					
Total					

Be careful here!

If I have thirty chocolates, how many will be caramel? _____

7. A jewellery maker uses sequences of beads that follow this pattern: red, red, red, blue, red, red, red, blue...

Blue								
Red								

If she uses 18 red beads, how many blue beads must she use? _____

Extension

8. To make a jug of orange squash, I use 200ml of orange cordial and 800ml of water. If I want to make only a glass, I only need to use 50ml of orange cordial. How much water do I need? _____

Orange				
Water				

This time, you need to get smaller each time. Divide the orange and the water by the same number.

Name: _____

Date: _____

LO: To use sequences to scale numbers up or down (silver).

1. For every 8 fingers, there are 2 thumbs.

Thumbs	2	4			
Fingers	8				

How many fingers are there when there are 8 thumbs? _____

2. For every table, there are 4 chairs.

Table	1	2	3	4	5			
Chairs								

If there are 28 chairs, how many tables are there? _____

3. For every teacher on a school trip, there are 6 children.

Teacher	1	2	3	4	5
Children					

If there are 3 teachers, how many children are there? _____

4. The children must get into groups. Each group has 2 boys and 3 girls.

Boys	2	4			
Girls	3				

How many girls must there be if there are 10 boys? _____

5. To make cookies, you must have 300g flour for every 200g butter.

Butter					
Flour					

If I use 1500g of flour, how much butter do I need? _____

6. In my box of chocolates, three chocolates in every nine are caramel.

Caramel	3				
Not caramel					
Total					

Be careful here! If I have 36 chocolates, how many will be caramel? _____

7. A jewellery maker uses sequences of beads that follow this pattern:
red, red, red, blue, blue, red, red, red, blue, blue...

Blue								
Red								

Name: _____


Date: _____

If she uses 18 red beads, how many blue beads must she use? _____

Extension

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Orange				
Water				

 This time, you need to get smaller each time. Divide the orange and the water by the same number.

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LO: To use sequences to scale numbers up or down. (gold)

After each question, write out the ratio and then simplify, if possible.

For example, for every 2 feet, there are 10 toes:
Feet: Toes
2 : 10
1 : 5

1. For every 8 fingers, there are 2 thumbs.

Thumbs	2	4			
Fingers	8				

How many fingers are there when there are 8 thumbs? _____

2. For every table, there are 4 chairs.

Table	1	2	3	4	5			
Chairs								

If there are 28 chairs in the classroom, how many tables are there?

3. For every teacher on a school trip, there are 6 children.

Teacher	1	2	3	4	5
Children					

If there are 3 teachers, how many children are there? _____

4. In PE, the children must get into groups to do a dance. Each group has 2 boys and 3 girls.

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