Varied Fluency
Step 8: Scaling

National Curriculum Objectives:

Mathematics Year 3: (3C6) Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
Mathematics Year 3: (3C8) Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects

Differentiation:

Developing Questions to support the understanding of scaling. Includes facts from the 2, 3 and 5 times tables.
Expected Questions to support the understanding of scaling. Includes facts from the 3, 4 and 8 times tables.
Greater Depth Questions to support the understanding of scaling. Includes using known facts to solve problems from the 6 times tables and problems beyond 12x.

More Year 3 Multiplication and Division resources.

Did you like this resource? Don't forget to review it on our website.

Scaling

1a. Match the numbers on the left to the numbers which are 2 times smaller than them.

18	3
12	12
24	9
6	6

VF

1b. Match the numbers on the left to the numbers which are 3 times bigger than them.

3	21
7	18
6	9
4	12

VF

2a. How many times bigger than 5 is 35?

Circle the correct answer.

4   2   7   5

VF

2b. How many times smaller than 20 is 2?

Circle the correct answer.

3   8   10   7

VF

3a. True or false?

11 is 3 times smaller than 33.

VF

3b. True or false?

25 is 5 times bigger than 4.

VF

4a. Alex has 5 toy cars.

Bella has 6 times more cars than him.

How many cars does Bella have?

VF

4b. Fay has 15 strawberries.

Greg has 3 times less strawberries.

How many strawberries does Greg have?

VF

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Varied Fluency – Scaling – Year 3 Developing

Scaling

Scaling

5a. Match the numbers on the left to the numbers which are 3 times smaller than them.

36	9
21	11
27	7
33	12

E   VF

5b. Match the numbers on the left to the numbers which are 4 times bigger than them.

6	36
9	32
12	24
8	48

E   VF

6a. How many times bigger than 4 is 48?

Circle the correct answer.

7   10   9   12

E   VF

6b. How many times smaller than 40 is 8?

Circle the correct answer.

11   5   10   8

E   VF

7a. True or false?

6 is 8 times smaller than 48.

E   VF

7b. True or false?

33 is 3 times bigger than 12.

E   VF

8a. Danny has 9 sweets.

Lily has 3 times more sweets than him.

How many sweets does Lily have?

E   VF

8b. Tia has 64 flowers in her garden.

Seth has 8 times less flowers in his garden.

How many flowers does Seth have?

E   VF

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Varied Fluency – Scaling – Year 3 Expected

Scaling

Scaling

9a. Match the numbers on the left to the numbers which are 3 times smaller than them.

39	14
45	17
42	13
51	15

VF

9b. Match the numbers on the left to the numbers which are 6 times bigger than them.

4	48
3	36
8	18
6	24

VF

10a. How many times bigger than 4 is 60?

Circle the correct answer.

13   20   15   12

VF

10b. How many times smaller than 60 is 3?

Circle the correct answer.

10   20   12   14

VF

11a. True or false?

7 is 6 times smaller than 42.

VF

11b. True or false?

104 is 8 times bigger than 12.

VF

12a. Milly has 20 pencil crayons.

Ali has 8 times more than her.

How many pencil crayons does Ali have?

VF

12b. James made 64 cupcakes.

Sarah made 4 times less than him.

How many cupcakes did Sarah make?

VF

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Varied Fluency – Scaling – Year 3 Greater Depth

Varied Fluency
Scaling

Developing
1a. 18 and 9, 12 and 6, 24 and 12, 6 and 3
2a. 7
3a. True
4a. 30

Expected
5a. 36 and 12, 21 and 7, 27 and 9, 33 and 11
6a. 12
7a. True
8a. 27

Greater Depth
9a. 39 and 13, 45 and 15, 42 and 14, 51 and 17
10a. 15
11a. True
12a. 160

Developing
1b. 3 and 9, 7 and 21, 6 and 18, 4 and 12
2b. 10
3b. False, 25 is 5 times bigger than 5. 20 is 5 times bigger than 4.
4b. 5

Expected
5b. 6 and 24, 9 and 36, 12 and 48, 8 and 32
6b. 5
7b. False, 33 is 3 times bigger than 11. 36 is 3 times bigger than 12.
8b. 8

Greater Depth
9b. 4 and 24, 3 and 18, 8 and 48, 6 and 36
10b. 20
11b. False, 96 is 8 times bigger than 12. 104 is 8 times bigger than 13.
12b. 16

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Varied Fluency – Scaling ANSWERS