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 bar models or other pictorials for support.
Expected Questions to support the understanding of scaling. Includes some use of bar models or other pictorials.
Greater Depth Questions to support the understanding of scaling. No use of bar models or pictorials to support the question.

More Year 3 Multiplication and Division resources.

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

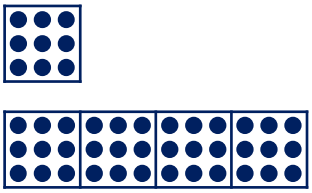
Scaling

1a. Match the pair of numbers with the correct bar model.

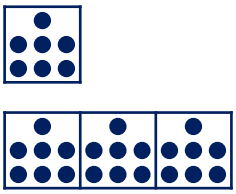
A. 21 and 7

B. 36 and 9

1.



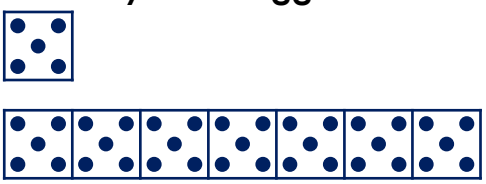
2.



D

VF

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



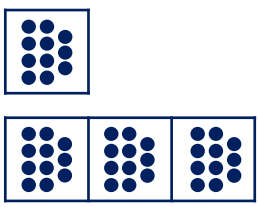
Circle the correct answer.

4 7 6 5

D

VF

3a. True or false? 11 is 3 times smaller than 33.

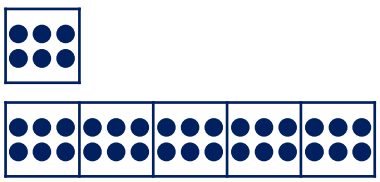


D

VF

4a. Alex has 6 toy cars.

Bella has 5 times as many cars as him.



How many cars does Bella have?

D

VF

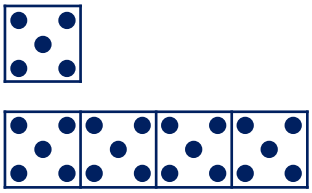
Scaling

1b. Match the pair of numbers with the correct bar model.

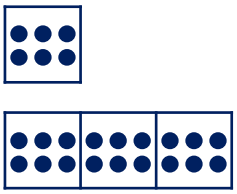
A. 20 and 5

B. 18 and 6

1.



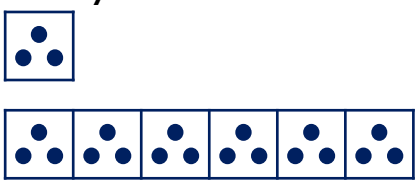
2.



D

VF

2b. How many times smaller than 18 is 3?



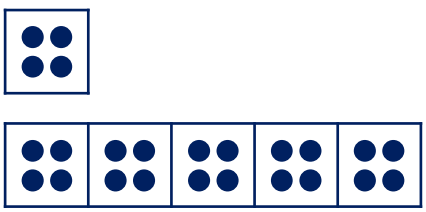
Circle the correct answer.

3 6 5 7

D

VF

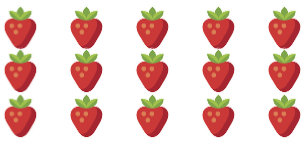
3b. True or false? 25 is 5 times bigger than 4.



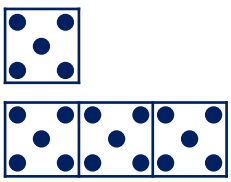
D

VF

4b. Fay has 15 strawberries.



Greg has 3 times less than Fay.



How many strawberries does Greg have?

D

VF

Scaling

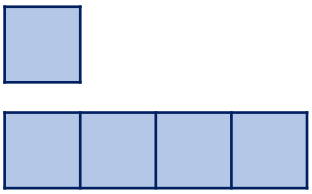
5a. Match the pair of numbers with the correct bar model.

A. 30 and 6

B. 12 and 3

1.

2.



E

VF

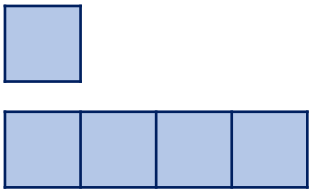
Scaling

5b. Match the pair of numbers with the correct bar model.

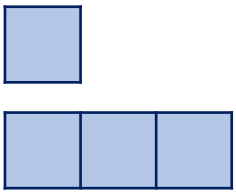
A. 12 and 36

B. 44 and 11

1.



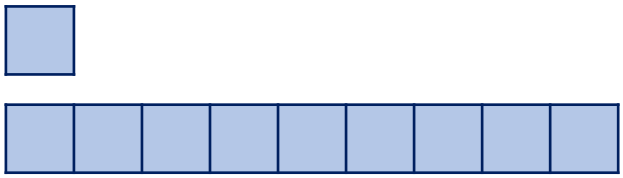
2.



E

VF

6a. How many times bigger than 4 is 36?



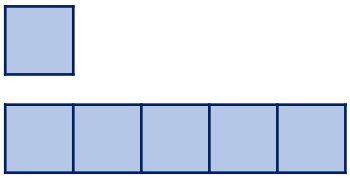
Circle the correct answer.

8 10 9 11

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

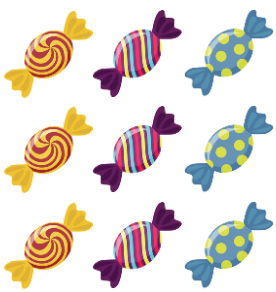
7b. True or false?

33 is 3 times bigger than 12.

E

VF

8a. Danny has 9 sweets.



Lily has 3 times as many sweets as him.

How many sweets does Lily have?

E

VF

8b. Tia has 32 flowers in her garden.

Greg has 8 times less than Tia.

How many flowers does Greg have?

E

VF

Scaling

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

36	9
27	7
21	10
30	12

GD VF

Scaling

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

4	48
3	30
8	18
5	24

GD VF

10a. How many times bigger than 4 is 48?

Circle the correct answer.

13 11 9 12

GD VF

10b. How many times smaller than 54 is 9?

Circle the correct answer.

8 9 12 6

GD VF

11a. Complete the missing digit to make this statement true.

5 is ☐ times smaller than 40.

GD VF

11b. Complete the missing digit to make this statement true.

96 is ☐ times bigger than 12.

GD VF

12a. Milly has 6 pencil crayons.

Ali has 24 pencil crayons.

Complete the sentence. Ali has _____ times as many pencil crayons as Milly.

GD VF

12b. James made 48 cupcakes.

Sarah made 8 cupcakes.

Complete the sentence. James has _____ times as many cupcakes as Sarah.

GD VF

Varied Fluency
Scaling

Developing
1a. A. 2; B. 1
2a. 7
3a. True
4a. 30

Expected
5a. A. 1; B. 2
6a. 9
7a. True
8a. 27

Greater Depth
9a. 36 and 12; 27 and 9; 21 and 7; 30 and 10
10a. 12
11a. 8
12a. 4

Varied Fluency
Scaling

Developing
1b. A. 1; B. 2
2b. 6
3b. False, 20 is 5 times bigger than 4.
4b. 5

Expected
5b. A. 2; B. 1
6b. 5
7b. False, 36 is 3 times bigger than 12.
8b. 4

Greater Depth
9b. 4 and 24, 3 and 18, 8 and 48, 5 and 30
10b. 6
11b. 8
12b. 6