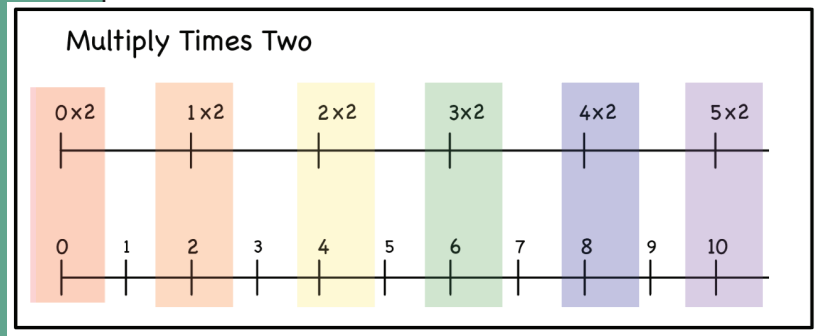
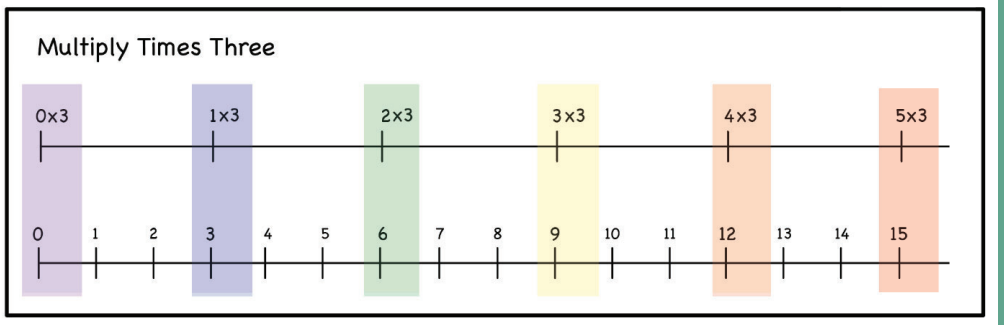
Practice Multiplication Facts

with

Scaled Number Lines





Elementary Math Resources

UnCommon-Core.com

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Director of Education
UnCommon-Core.com

Hello Teachers,

Thank you for downloading this handout. After decades of teaching, now I am sharing some of the activities I designed for my students and some new ones as well.

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Also, visit my Teachers Pay Teachers store UnCommon-Core dot com.

Thank you again. All the best,

Isabelle

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Director of Education
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Introducing Scaled Number Lines; Teacher Tips

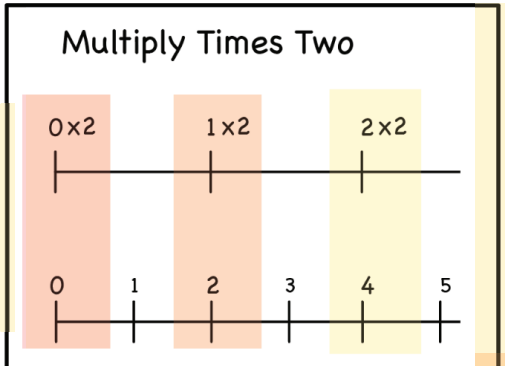
These ideas will help students make sense of scaled number lines.

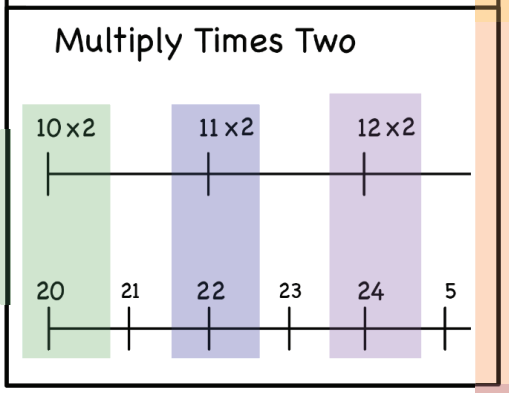
Start with the Times Two and Times One number lines. Then repeat these activities with other pairs of scaled number lines.

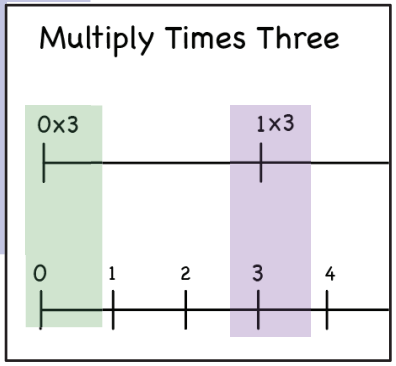
Invite students to do a choral reading of the text on both pages of their Making Sense handouts. Ask them to explain the text in their own words.

Ensure that students connect the every day language of 'twice' and 'double' with multiplying by two.

Have students measure the distances between numbers on both of the scaled number lines.
Which one is bigger? (Times Two)
How much bigger? (Twice as big)
Challenge them to highlight the sentence on their paper that explains this relationship.







7. 0×3= 0

8. 1×3= 3

Encourage learners to use what they know about place value when they need to recall multiplication facts:

2 x 1 = 2
2 x 10 = 20
2 x 100 = 200
and so on.

Understanding place value will also help students imagine other parts of the scaled number lines:

2 x 10 = 20
2 x 11 = 22
2 x 12 = 24
and so on.

When students are comfortable comparing number lines of different sizes, have them highlight numbers opposite each other. Then they can use the highlighted numbers to write multiplication facts.

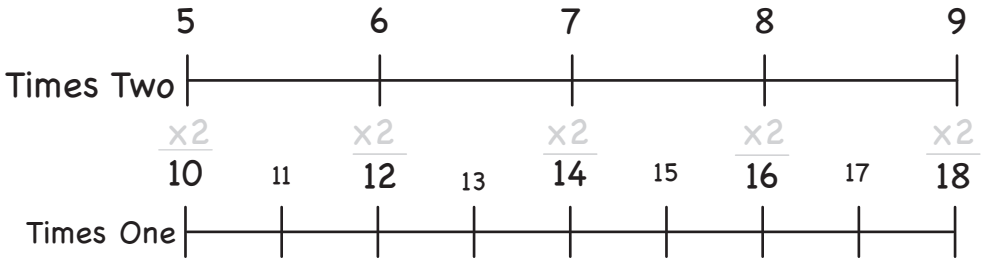
Make Sense of Scaled Number Lines: Times Two

name

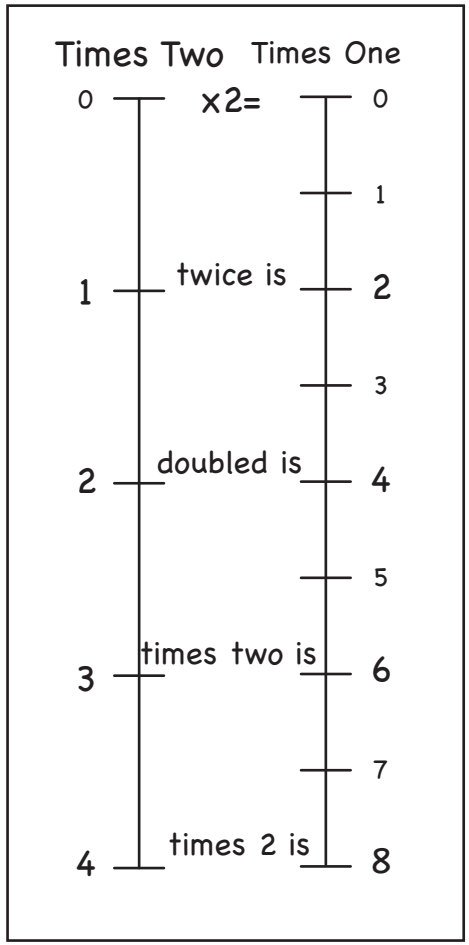
There is twice as much distance between numbers on the Times Two number line as there is on the Times One number line.

Line up the number lines so that the zeros match. Notice how each number on the Times Two number line is now lined up with its double on the Times One number line.

For example, seven times two is fourteen. Also, the number 7 on the Times Two number line is directly opposite 14 (when the zeros on each line are matched up).



Double, twice as many, two times, duplicate, twofold

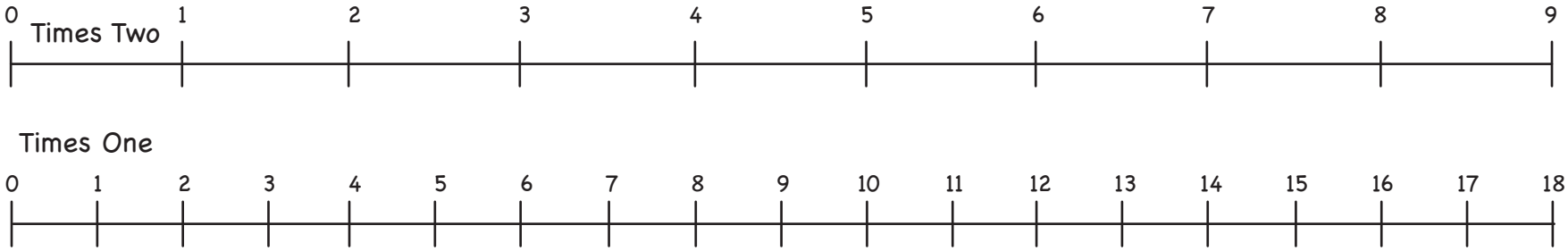


Make Sense of Scaled Number Lines: Times Two

name

Numbers on the Times Two line are opposite every other number on the Times One line. The numbers on the Times One number line are double the amount of their matching numbers on the Times Two line.

Use the number lines below if you need help answering the math questions on this page.



1. Two times four is

2. Double five is

3. What number is twice three?

4. What is twice seven?

5. 4x2=

6. 2x2=

7. 0x2=

8. 2x9=

9. 2x8=

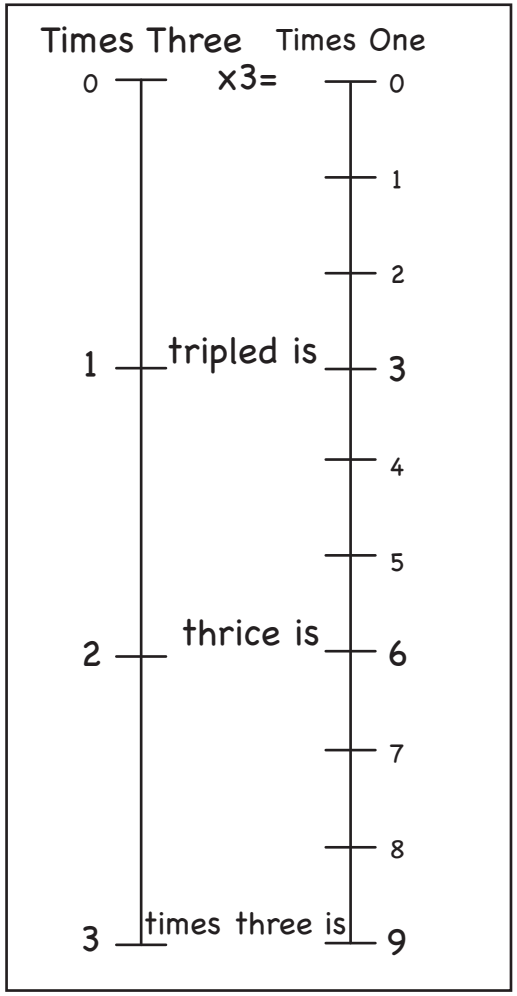
10. 2x6=

11. 5x2=

12. 1x2=

Make Sense of Scaled Number Lines: Times Three

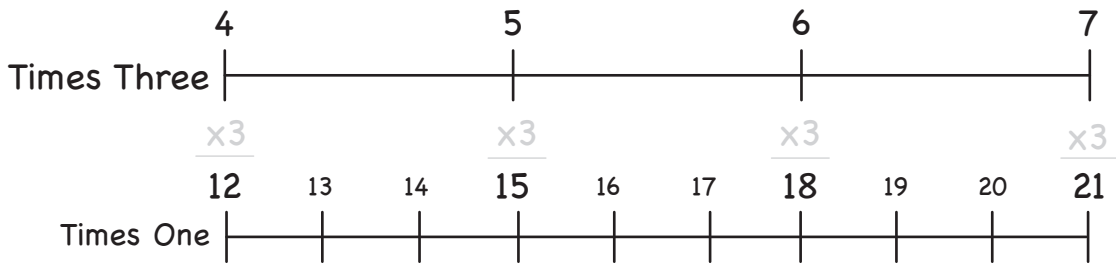
name



There is three times as much distance between numbers on the Times Three number line as there is on the Times One number line.

Line up the number lines so that the zeros match. Notice how each number on the Times Three number line is now lined up with its triple on the Times One number line.

For example, Seven times three is twenty-one. Also, the number 7 on the Times Three number line is directly opposite 21 (when the zeros on each line are matched up).



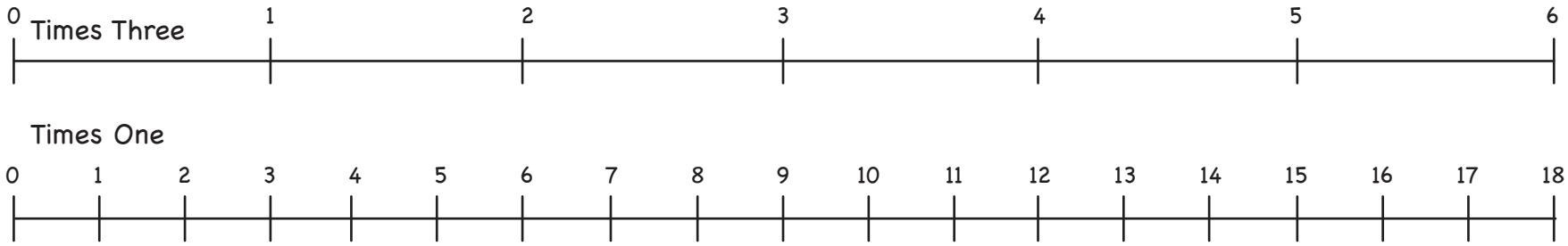
Triple, triplicate, times three, threefold, thrice as many

Make Sense of Scaled Number Lines: Times Three

name

Numbers on the Times Three number line are opposite every third number on the Times One line. The numbers on the Times One number line are triple the amount of their matching numbers on the Times Three line.

Use the number lines below if you need help answering the math questions on this page.



1. Three times four is

2. Triple five is

3. What number is thrice two?

4. What number is 3+3+3?

5. 4x3=

6. 6x3=

7. 0x3=

8. 1x3=

9. 3x3=

10. 3x6=

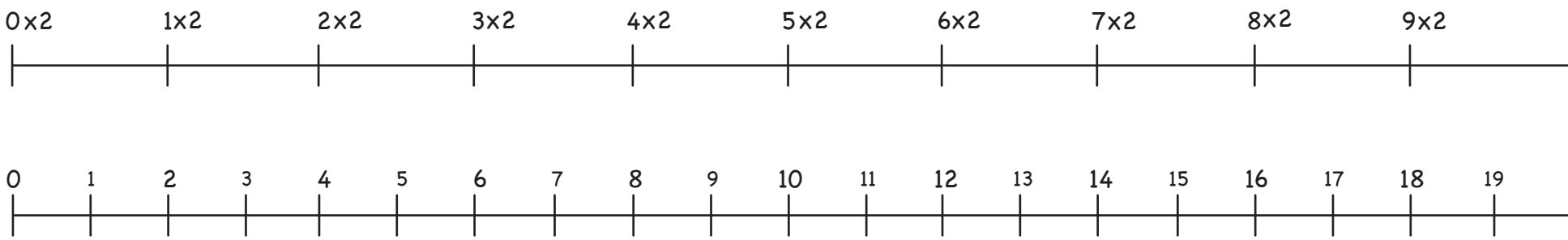
11. 5x3=

12. 3x4=

Cut and Paste a Pair of Scaled Number Lines

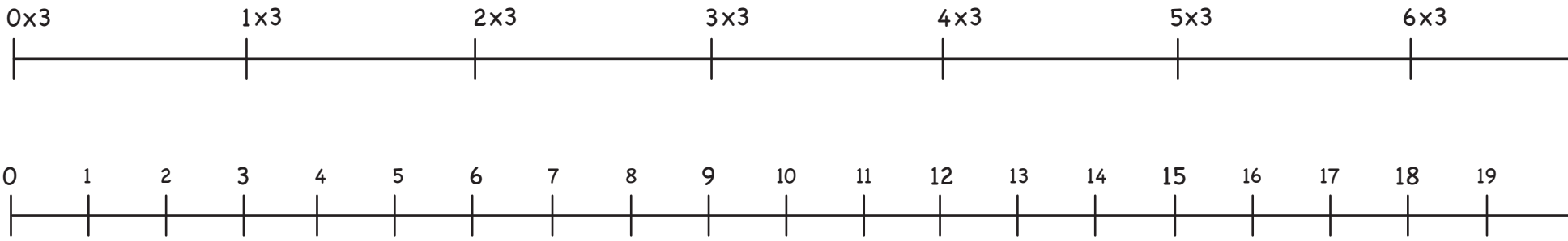
name:

Multiply Times Two



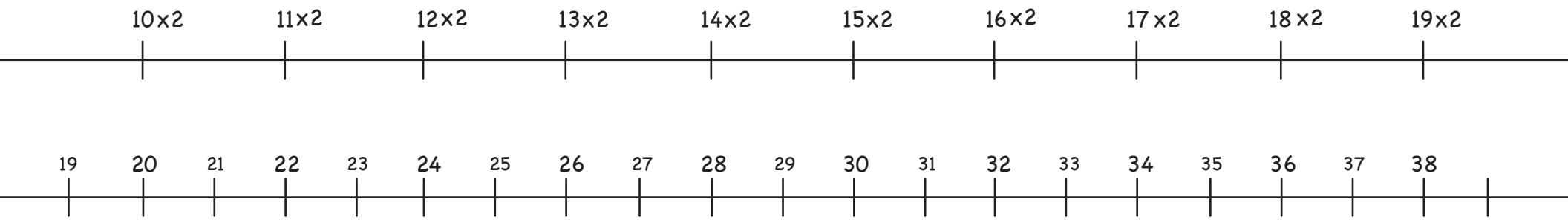
name:

Multiply Times Three

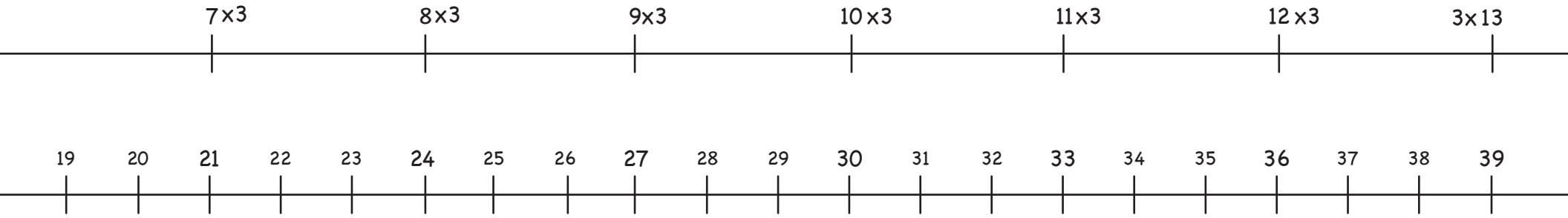


Page 2: Seamlessly overlap the number lines at 19.

Times Two:



Times Three:



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