


SHAKE AND SPILL

5, 10 & 20 Frames • Part-Part-Whole • Fact Families

NAME: _____

Shake 5, Spill, Represent 

Shake them. Spill them. Represent them!

Five Frame

1

○	○	○	○	○
---	---	---	---	---

Part-Part-Whole

5

____ and ____ is ____

Five Frame

○	○	○
---	---	---

Part-Part-Whole

NAME: _____

Shake 10, Spill, Represent

Shake them. Spill them. Represent them!

1

○	○	○	○	○
○	○	○	○	○

 +

--

 =

--

2

○	○	○	○	○
○	○	○	○	○

 +

--


 =

--

5

○	○	○	○	○
---	---	---	---	---

NAME: _____

Shake 10, Spill, Represent 

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Ten Frame

1

○	○	○	○	○
○	○	○	○	○

Part-Part-Whole

10

Fact Family

____ + ____ = ____ ____ - ____ = ____

____ + ____ = ____ ____ - ____ = ____

2

○	○	○	○	○
○	○	○	○	○

Part-Part-Whole

10

Fact Family

Build
Number
Sense

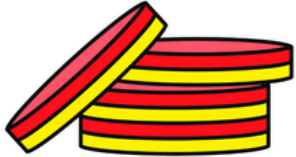
SHELLEY GRAY

Looking for a hands-on, visual way to reinforce **partners of 5, 10, and 20**?

Shake and Spill is an engaging way to work with making 5, 10, and 20 in a variety of ways.

NAME:

Shake 10, Spill, Represent



Shake them. Spill them. Represent them!

1

Ten Frame

●	●	●	●	●
●	●	●	●	●

Part-Part-Whole

8	2
10	

Fact Family

8

2

=

10

2

8

=

10

10

-

8

=

2

10

-

2

=

8

2

Ten Frame

Fact Family

+

=

+

=

-

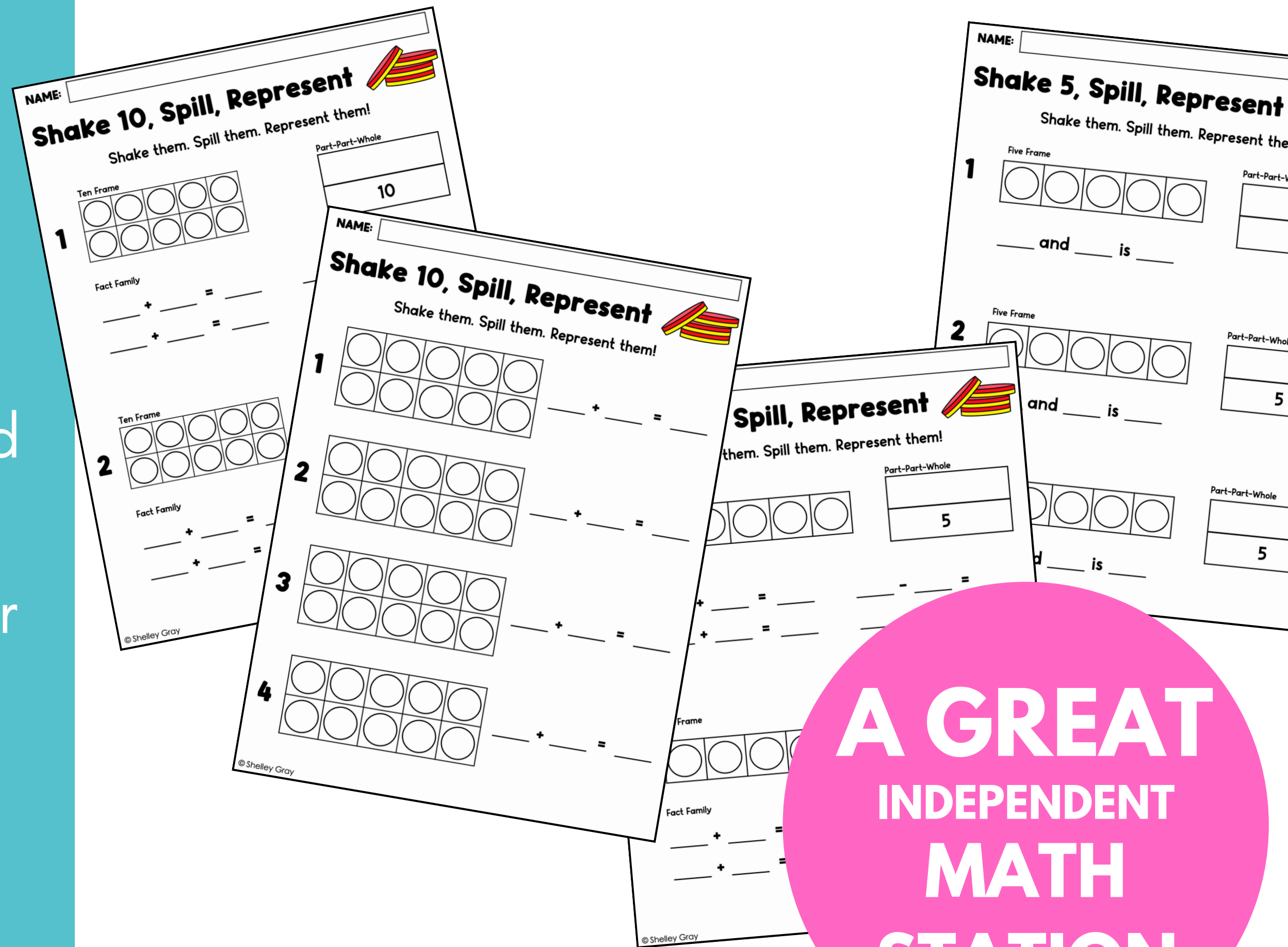
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CONCRETE
REPRESENTATIONAL
ABSTRACT

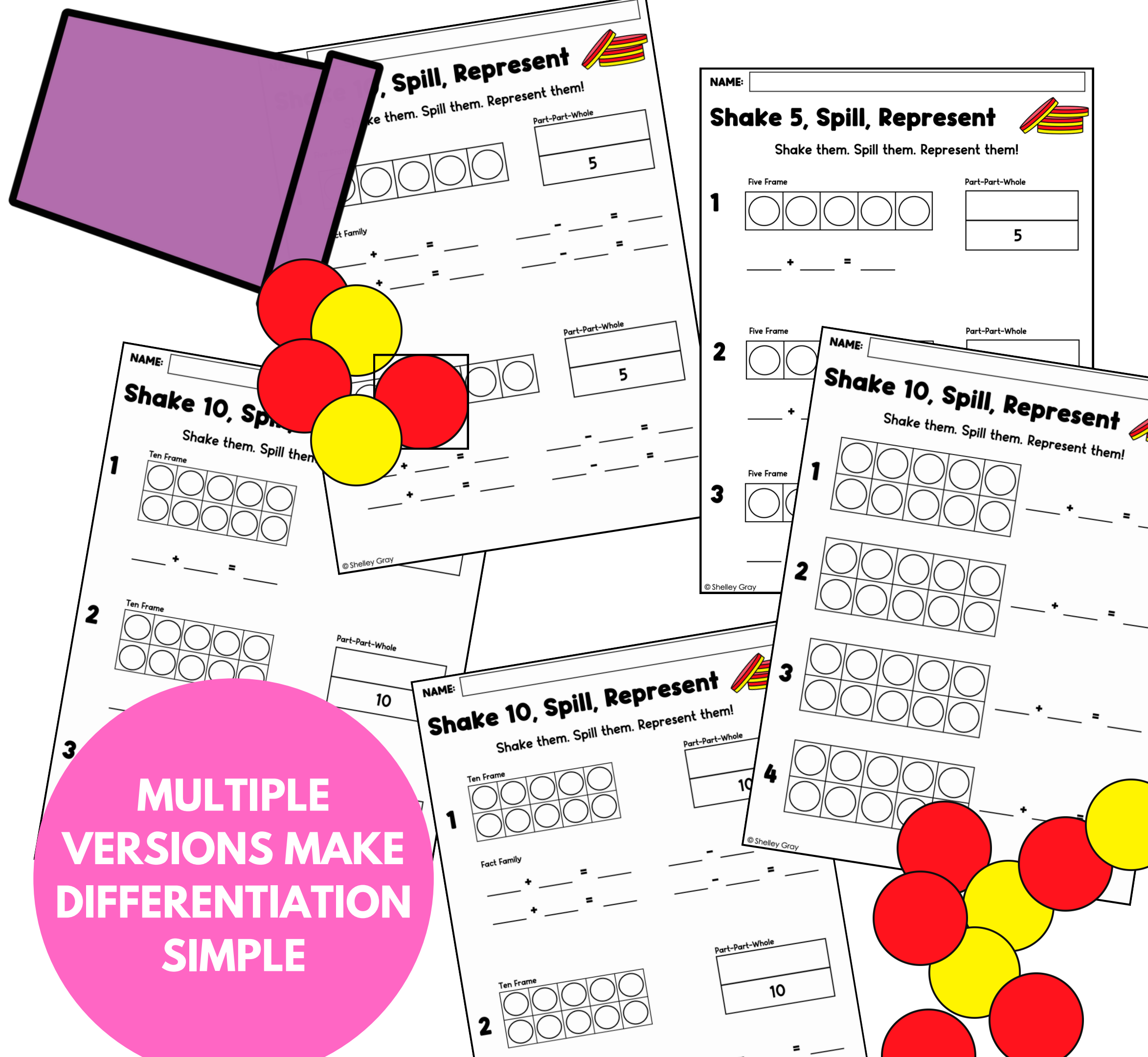
Fifteen variations of
this activity are included
– choose the one that
best suits your curricular
goals.



**A GREAT
INDEPENDENT
MATH
STATION**

Whether it is **part-part-whole models**,
relationships between addition and subtraction, or **simple counting**, there is a Shake and Spill game for you!

Math is easier when you can SEE it!



**MULTIPLE
VERSIONS MAKE
DIFFERENTIATION
SIMPLE**