



# Number Talk

Let's create our own Number Talks.

## Warm-up

### Number Talk: A Whole Number and a Fraction

Find the value of each expression mentally.

•  $6 \times \frac{1}{4}$

•  $6 \times \frac{3}{4}$

•  $18 \times \frac{3}{4}$

•  $180 \times \frac{3}{4}$



## Activity 1

### Related Numbers, Related Expressions

1. Here are 2 addition expressions. Think of at least 2 different ways to find the value of each sum mentally.
  - a.  $15 + 29$
  - b.  $30 + 58$
2. Here are 3 subtraction expressions. Think of at least 2 different ways to find the value of each difference mentally.
  - a.  $91 - 11$
  - b.  $91 - 16$
  - c.  $391 - 86$
3. Can you write a fourth subtraction expression that uses the same strategy you used to find the values of the other differences?



## Activity 2

### Add One New Expression, Then Two

1. Here are 3 division expressions. Find the value of each quotient mentally and think about how they might be related.

◦  $35 \div 5$

◦  $70 \div 5$

◦  $210 \div 5$

◦ \_\_\_\_\_

Write a new division expression whose value can be found more easily after working through the first three expressions.

2. Here are 2 multiplication expressions. Analyze them and think about how they might be related.

◦  $21 \times 7$

◦  $42 \times 7$

◦ \_\_\_\_\_

◦ \_\_\_\_\_

Write 2 new expressions. Explain your reasoning for each expression.



## Activity 3

### Add Three New Expressions

Here are 4 expressions you could use to start a Number Talk activity.

$75 + 30$

$160 - 51$

$24 \div 8$

$3 \times \frac{1}{6}$

1. Choose one starting expression. Think of at least 2 different ways to find its value mentally.

2. Write 3 expressions to create a Number Talk activity.

\_\_\_\_\_ (starting expression)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Create an answer key for your Number Talk. Include at least one way to find the value of each expression mentally.

