

Fourth Grade Assessment I

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Summary	This is a written assessment where children will interpret and determine the truth or falsehood of equations and statements that describe comparisons between quantities.
Goals	1. To evaluate children's learning about multiplicative relations and algebraic notation to represent comparisons between measured quantities or magnitudes.
Materials	Assessment Handouts
Keywords	Assessment Contextualized Situations Describing Magnitudes Interpretation of Equations Interpretation of Stories Ratios

Name: _____ Date: _____

1. Jason has twice as much money as Sandra. How much money does Sandra have? [More than one answer could be true.]

- (a) Sandra has 2 dollars.
- (b) Sandra has 50 cents.
- (c) Sandra has half of the amount Jason has.
- (d) Sandra has two times the amount Jason has.
- (e) None of the above answers is correct.

Explain your answer.

Name: _____ Date: _____

2. Monica is three years old. She compared her belt to her father's belt. She found out that her belt is exactly half as long as her father's belt. Which of the following is

True? False? or You can't tell? [Circle your answer]

Monica is ten years old	True	False	You can't tell.
Monica is three years old.	True	False	You can't tell.
Monica has brown eyes.	True	False	You can't tell.
Monica's belt is too tight	True	False	You can't tell.
Monica's belt is shorter than Monica's father's belt	True	False	You can't tell.
Monica's father's belt is twice as long as Monica's belt.	True	False	You can't tell.
Monica's father is very fat.	True	False	You can't tell.
Two of Monica's belts are together as long as one belt of Monica's father.	True	False	You can't tell.

Name: _____ Date: _____

3. Karen and Joe collect baseball cards. Joe has half the number of cards that Karen has.

K means how many cards Karen has.

J means how many cards Joe has.

True or False?

$K = J$	True	False
$K = 2 \times J$	True	False
$J = 2 \times K$	True	False
$J = K + K$	True	False
$K = J + J$	True	False
$K = \frac{1}{2} J$	True	False
$J = \frac{1}{2} K$	True	False
$K = \frac{1}{2} \times J$	True	False
$J = \frac{1}{2} \times K$	True	False
$K = J + 2$	True	False
$J = K + 2$	True	False
$J = \frac{K}{2}$	True	False
$K = \frac{J}{2}$	True	False