**Grade 8**

**ACTIVITY 2: Total :30 marks**

**Ratio and rate**

**Algebraic expressions and equations**

1. Write each of the following ratios in another form:

1.1 21: 3 (1)

1.2 9: 2 (1)

2. Write an equal ratio for the following:

2.1 5:15 (1)

2.2 6:4 (1)

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| 3. At a local bookstore, for every 100 books sold, 68 of them are fiction. What  is the ratio of *non-fiction* books to total books sold? (3) | | | |  |
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| 4.James has quite a bit of free time each day. He often spends 4 hours on the  computer and the other 2 hours playing basketball.  4.1 What is his ratio of basket ball to computer time? (1)  4.2 What ratio of his total free time is spent on basket ball? (1) | | | |  |
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| 5. The ratio of frogs to tadpoles in a pond is 3:4. After scooping up some  frogs and tadpoles in a jar, our ratio of frogs to tadpoles is 9:13. Is the ratio  in our jar equivalent to the ratio in the entire pond? (3) |  |

6. The Spring Flats have 50 one-bedroom flats and 26 two-bedroom

flats. Rossville flats have 46 one-bedroom and 30 two-bedroom

flats. Which flat complex has a higher ratio of one-bedroom to

two- bedroom flats? (5)

7. Distinguish between the following:

1. − (3 + 2)       and    8 − 3 + 2 (2)

8. Evaluate:  (4)

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9. Solve for k: 3 = 8 (2)