



MATH

TITLE: Math Problems: Decimals

SUBJECT: Math

GRADE LEVEL: 4-6

OBJECTIVE(S): To use division to determine the most economical purchase of popcorn

OVERVIEW:

MATH CHALLENGE

What is the best popcorn value? To find out, first convert to decimals.

1. A 7-oz. bag for \$2.39
2. A $2\frac{3}{8}$ -oz. bag for \$.99
3. A $\frac{5}{8}$ -oz. bag for \$.25
4. A 1-oz. bag for \$.75

Understanding Decimal Conversion:

To convert to decimals, you need to interpret the fraction bar to mean "divided by." In problem number 2, this means that $\frac{3}{8}$ is the same as 3 divided by 8. So, converted it would read "A 2.375-oz. bag for \$.99." The fraction $\frac{5}{8}$ converted would be 0.625 (5 divided by 8).

- 1) Determine the cost per ounce of each bag of popcorn.
- 2) Rank the bags from most economical to least economical.