

Purpose & SOL

- Students will practice addition and subtraction of whole numbers (with and without regrouping) by using estimation.
- Math 3.4, 4.4, 5.4

Materials

- Math problems on white paper, cut (1 paper (snowball) per student – you may want more as a back-up)
- 1 recording sheet per student – best to copy on a different color

Length
25 min.

Introduction

Review the concept of addition and subtraction using estimation. Describe “strong numbers” (5 or higher) for rounding up, and “weak numbers” (4 or lower) for remaining the same. Strike a muscle pose for strong numbers, and squat down in a ball for weak numbers.

Implementation

Move Behind Desk

- 1) The teacher will explain that the students will be having a snowball fight! Review the rules: no running, no throwing above the shoulders, hitting others.
- 2) Give each student a colored recording sheet and a white snowball problem paper.
- 3) The teacher will explain the goal is to estimate the sum or difference of each snowball problem.
- 4) Demonstrate how students will write down their problem on their recording sheet. Model how they will estimate and rewrite the estimated version of the problem. Model how to solve and find the estimated sum or difference.
- 5) After students solve the problem on their recording sheet, instruct them to crumple the snowball problem paper into a “snowball”. They should complete 10 snow-jacks (jumping jacks)
- 6) On the count of 3, or “go” signal, allow students to gently toss their snowballs. After they toss, they are “frozen”. On the teachers call, they must find the nearest snowball and open it on their desk.
- 7) They will write the problem on their recording sheet, change it to the estimated problem, and solve.
- 8) When students have finished solving, they should crumple that snowball and do 10 snow-jacks.
- 9) On the count of 3 or “go:” signal, students can snowball fight again. Continue with remaining time.

Cool Down

Have students sit on the floor in the classroom. Take a butterfly pose, feet together, and knees out. Have them bend and relax over their feet for 20-30 seconds. Take neck rolls and extended exhales too.

Modifications

Change the “snowball” papers to practice any math computation concept.



Name : _____

Estimation Snowball Fight

Directions: Write the original problem, estimate, and solve.

1) Original Problem	Estimated Problem
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2) Original Problem	Estimated Problem
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3) Original Problem	Estimated Problem
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4) Original Problem	Estimated Problem
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5) Original Problem

Estimated Problem

6) Original Problem

Estimated Problem

7) Original Problem

Estimated Problem

8) Original Problem

Estimated Problem

9) Original Problem

Estimated Problem

$$\begin{array}{r} 8,239 \\ + 4,928 \\ \hline \end{array}$$

$$\begin{array}{r} 3,984 \\ + 9,329 \\ \hline \end{array}$$

$$\begin{array}{r} 795 \\ + 969 \\ \hline \end{array}$$

$$\begin{array}{r} 597 \\ + 938 \\ \hline \end{array}$$

$$\begin{array}{r} 341,856 \\ + 284,332 \\ \hline \end{array}$$

$$\begin{array}{r} 254,846 \\ + 105,165 \\ \hline \end{array}$$

$$\begin{array}{r} 6,978 \\ + 9,499 \\ \hline \end{array}$$

$$\begin{array}{r} 4,213 \\ + 5,779 \\ \hline \end{array}$$

$$\begin{array}{r} 6,435 \\ + 2,978 \\ \hline \end{array}$$

$$\begin{array}{r} 958 \\ + 543 \\ \hline \end{array}$$

$$\begin{array}{r} 44,597 \\ + 45,381 \\ \hline \end{array}$$

$$\begin{array}{r} 75,291 \\ + 33,734 \\ \hline \end{array}$$

$$\begin{array}{r} 8,909 \\ - 7,699 \\ \hline \end{array}$$

$$\begin{array}{r} 6,908 \\ - 5,371 \\ \hline \end{array}$$

$$\begin{array}{r} 854,273 \\ - 433,144 \\ \hline \end{array}$$

$$\begin{array}{r} 903,847 \\ - 612,256 \\ \hline \end{array}$$

$$\begin{array}{r} 981 \\ - 678 \\ \hline \end{array}$$

$$\begin{array}{r} 301 \\ - 178 \\ \hline \end{array}$$

$$\begin{array}{r} 853 \\ - 346 \\ \hline \end{array}$$

$$\begin{array}{r} 956 \\ - 598 \\ \hline \end{array}$$

$$\begin{array}{r} 763 \\ - 348 \\ \hline \end{array}$$

$$\begin{array}{r} 836 \\ - 561 \\ \hline \end{array}$$

$$\begin{array}{r} 9,433 \\ - 4,228 \\ \hline \end{array}$$

$$\begin{array}{r} 7,362 \\ - 1,837 \\ \hline \end{array}$$

$$\begin{array}{r} 85,583 \\ - 66,475 \\ \hline \end{array}$$

$$\begin{array}{r} 64,938 \\ - 36,742 \\ \hline \end{array}$$