Grade 4 Add/Subtract Study Guide

Estimating

    a. Nearest 1000: 3 742→ 4 000

    b. Nearest 100: 3 742→ 3 700

    c. Nearest 10: 3 742→ 3 740

    d. Nearest Whole Number (ones place value): 8.46 → 8

We have used standard algorithms (shown below) to solve equations in grade 4.

Addition

$$
\begin{array}{r}
9\,1\,4\,8.6\,1 \\
+\ \ 4\,3\,2.0\,3 \\
\hline
9\,5\,8\,0.6\,4
\end{array}
$$

Subtraction

$$
\begin{array}{r}
9\,1\,4\,8.6\,1 \\
-\ \ 4\,3\,2.0\,3 \\
\hline
8\,7\,1\,6.5\,8
\end{array}
$$

To assist with studying:

    1) Complete the practice questions below

    2) Review or finish pages in the student booklet sent home

1. Estimate each sum or difference.
   a) 680 + 213   b) 2761 − 1780   c) 176 + 412
   d) 597 − 237   e) 1276 + 2566   f) 911 − 499

2.   Add or subtract.
   a) 2567 + 1724   b) 385 − 189   c) 247 + 338   d) 4210 − 2983

3. For a Read-A-Thon, Natalie read 786 pages.
   Kevin read 815 pages. Mario read 623 pages.
   Altogether, they read over 2000 pages.
   a) Is 2000 exact or an estimate? How do you know?
   b) About how many more pages did Kevin read than Mario?

4. Add or subtract. How do you know your answers are reasonable?

   a) 2211   b)   452   c)   800   d) 4579
      − 878   + 348   − 298   + 3975

   e)   762   f)   737   g)   993   h) 9843
      − 304   + 843   + 5002   − 4213

5. The Musicians, a rock group, had 3 concerts last
   month. The first concert had an audience of 4356.
   The second concert had an audience of 3295. The
   third concert had an audience of 2964. How many
   people attended the concerts altogether?

6. Refer to question 11. The first Musicians concert
   was a promotion night.
   Seven hundred forty-six tickets were given
   away through radio contests.
   Three hundred twelve tickets were given
   away through Internet promotions.
   The rest of the tickets were purchased by fans.
   How many tickets were purchased for the
   first concert?

8. Kim had 2.6 m of blue fabric and 1.6 m of yellow fabric.
   a) How much fabric did Kim have altogether?
   b) How much more blue fabric did Kim have?

9. Add or subtract. Use Base Ten Blocks to help you.
   a) $4.6 + 4.3$ b) $3.4 - 1.2$ c) $2.8 + 3.9$
   d) $1.7 - 1.5$ e) $5.1 + 0.9$ f) $1.3 - 0.8$

10. Imagine you have $10.00 to buy school supplies.

$4.95 $1.57 $3.79

$5.25

$2.68

a) Choose 2 items you want to buy.
   About how much will they cost?
   About how much money would
   you have left?

b) Which two items could you *not* buy
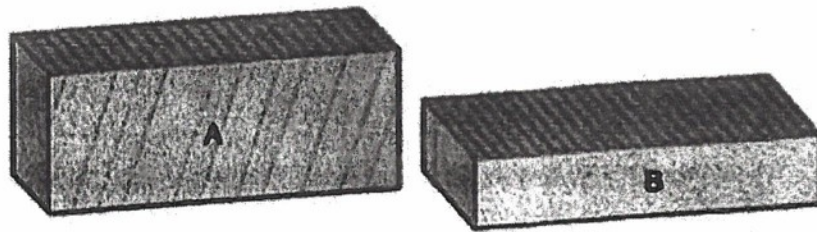   with $10.00? Explain.

UNIT

5 Learning Goals

☑ model, name, and record
  fractions of a whole and of
  a set
☑ compare and order
  fractions
☑ relate tenths and
  hundredths as decimals
  and fractions
☑ explore equivalent
  decimals
☑ use decimals to record
  money values
☑ add and subtract decimals
  and money
☑ identify everyday contexts
  in which fractions and
  decimals are used

Use the following information to answer questions 13 to 15.
Container A holds 2500 unit cubes.
Container B holds 1875 unit cubes.
Both containers are full.

11. How many cubes do the two containers hold altogether?

12. Rhonda takes 725 cubes from container A. Then Marilyn takes 925 cubes, and Everett takes 375 cubes. How many cubes are left in container A?

13. Is there enough room now in container A to hold the cubes from container B? Explain.