LESSON MAKER PRO

Number Quest

Solve with whole numbers, fractions, and decimals.

GRADE 6 · 6.NR.1

6.NR.1 "Solve relevant, mathematical problems involving operations with whole numbers, fractions, and decimal numbers."

NAME _____ DATE _____

CHOOSE THE RIGHT STEPS

For mixed operations, work inside parentheses first, then multiply or divide, then add or subtract. When adding or subtracting fractions, rename them with a common denominator. Line up decimal points carefully, and estimate to check whether your answer makes sense.

WORKED EXAMPLE

Find: 4 2/5 + 1 3/10 - 3/4

1. Rename 2/5 as 4/10: 4 4/10 + 1 3/10 - 3/4
2. Add the first two mixed numbers: 5 7/10 - 3/4
3. Use twentieths and subtract: 5 14/20 - 15/20 = 4 19/20

Answer: 4 19/20

PRACTICE 6 problems

1 684 - 297 + 146

ANSWER _____

2 5/6 + 7/12

ANSWER _____

3 7 3/8 - 2 5/6

ANSWER _____

4 12.6 - 4.78 + 0.95

ANSWER _____

5 36 x 7/9

ANSWER _____

6 (45 / 5) + 6 x 4

ANSWER _____

APPLY IT Show your work

1 The game club has $24.75 from snack sales. It spends $8.60 on supplies and then earns $6.35 from a raffle. How much money does the club have now?

WORK SPACE

ANSWER _____

2 A tablet update is 2 1/2 GB. By Monday, Kai downloads 3/5 of the update. On Tuesday, Kai downloads another 3/4 GB. How much of the update remains?

WORK SPACE

ANSWER _____

CHALLENGE One step up

The art club has 19 1/2 yards of fabric. It uses 3 2/5 yards for costumes and 4 1/10 yards for a display. The remaining fabric is cut into strips that are each 2/3 yard long. How many complete strips can the club cut?

WORK SPACE AND ANSWER

ANSWER KEY # Number Quest

GRADE 6 · 6.NR.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	684 - 297 + 146	**533**
2	5/6 + 7/12	**1 5/12**
3	7 3/8 - 2 5/6	**4 13/24**
4	12.6 - 4.78 + 0.95	**8.77**
5	36 x 7/9	**28**
6	(45 / 5) + 6 x 4	**33**

PART 2 · APPLY IT

1. **$22.50** Subtract the cost from the snack-sale money, then add the raffle money: 24.75 - 8.60 + 6.35 = 22.50.
2. **1/4 GB** Find 3/5 of 2 1/2 GB, then add 3/4 GB. Kai has downloaded 1 1/2 + 3/4 = 2 1/4 GB, so 1/4 GB remains.

CHALLENGE

18 complete strips

Accept equivalent fraction forms and improper fractions where appropriate. For decimal money, accept $22.5 or $22.50.