

Approach: One to one

Year: 8

Focus: Number strategy

Resources: 4 problem cards, recording book



Questions / instructions:

% responses
y8

Follow the number problems as I read them to you. You can write in the recording book to help you work them out if you want.

Hand recording book and pencil to the student.

Hand and read card 1 to the student.

1. What is your answer to this problem? ✓ \$42
✗ \$30
2. Tell me how you worked it out.

Tim and Jay each have \$12 and Sharon has \$18. How much money have they got altogether?

combination of methods

addition

subtraction

multiplication

division

strategy showing how numbers were combined

34
[61]

10

88

0

1

1

43

Hand and read card 2 to the student.

3. What is your answer to this problem? \$72
4. Tell me how you worked it out.

Josh earns \$18 a week cleaning cars after school. How much will he earn in 4 weeks?

combination of methods

addition

subtraction

multiplication

division

strategy showing how numbers were combined

21

18

0

54

0

33

Hand and read card 3 to the student.

5. What is your answer to this problem? 12
6. Tell me how you worked it out.

In a fruit salad there are 3 apples for every 4 oranges. If a fruit salad has 9 apples, how many oranges are needed?

 $3 \times 3 = 9$ and $4 \times 3 = 12$ $9 \div 3 = 3$ and $4 \times 3 = 12$

any other valid strategy

37

9

14

Hand and read card 4 to the student.

7. What is your answer to this problem? 14
8. Tell me how you worked it out.

It takes 10 pizzas to feed 15 people. How many pizzas does it take to feed 21 people?

10 is $\frac{2}{3}$ of 15 and $\frac{2}{3} \times 21 = 14$

any other valid strategy

3

7

Total score: 5 4

4 23

3 32

2 26

1 13

0 1

Commentary:

Students were able to complete the simpler problems but had difficulty with problems involving ratios or subtlety in the framing of the problem.