



Money problems – Sam

Objectives

The relevant framework objectives are:

- extend written methods to column addition and subtraction of numbers involving decimals (key objective);
- extend written methods to: short multiplication of numbers involving decimals; long multiplication of a three–digit by a two–digit integer; short division of numbers involving decimals (key objective);
- identify and use appropriate operations (including combinations of operations) to solve word problems involving numbers and quantities (key objective).

Activity description

The teacher set various word problems for assessment purposes.

Commentary

Sam's work shows that he knows how to choose the appropriate operation to solve the problems set.

He can add, subtract and multiply decimals to two places, and divide a four–digit number by a single digit. In the second problem he has demonstrated that he is beginning to check his results using inverse operations. He is able to interpret the answers to his calculations in light of the problem set.

This indicates that Sam is working securely within level 4 in Ma2.



Items of work

The word problems posed by the teacher

The following problems were used by the teacher for assessment purposes.

A shop has a special offer of blank video cassettes of four for £10. How much does this save if the normal price is £2.99 each?

Three men and five women went to Spain. They paid a total of £1648. What was the fare?

Six people paid £4.36 each for a meal. How much change was there from £30?



Sam's calculations and solutions to the problems

1.
$$\begin{array}{r} 2.99 \\ 2.99 \\ \hline 5.98 \\ 5.98 \\ \hline 11.96 \end{array}$$
 Sales \$1.96

2.
$$\begin{array}{r} 206 \\ 8 \overline{) 1648} \\ \underline{16} \\ 048 \\ \underline{048} \\ 0 \end{array}$$

$$\begin{array}{r} 206 \\ \times 8 \\ \hline 1648 \end{array}$$
 They paid \$2.06

3.
$$\begin{array}{r} 4.36 \\ \times 6 \\ \hline 26.16 \end{array}$$

$$\begin{array}{r} 800 \\ - 2616 \\ \hline 384 \end{array}$$



About this entry

Subject: mathematics

Year: 6

Key stage: 2

NC programme of study: Ma2p1e, Ma2p3a, Ma2p3i, Ma2p3j, Ma2p4a

Attainment target: Ma2

Evidence for: level 4

Framework for teaching mathematics – objectives:

- Extend written methods to column addition and subtraction of numbers involving decimals.
- Extend written methods to: short multiplication of numbers involving decimals; long multiplication of a three–digit by a two–digit integer; short division of numbers involving decimals.
- Identify and use appropriate operations (including combinations of operations) to solve word problems involving numbers and quantities.