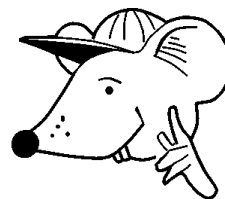




MATHEMATICS



N.S. Yr. 4 P.84

**Use all four operations to solve
word problems involving money.**

Equipment

Paper, pencil, calculator

MathSphere

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Concepts

Children should understand and be able to read and write the following words:

money, coin, pound, £, pence, note, price, cost, cheaper, more expensive, pay, change, total, value, amount.

Children need to be able to read and understand problems written in prose that include some elements of real life involving money.

They should be able to read the problem, understand the situation described, be able to see what processes are necessary to solve it and then lay out their answer clearly, giving some explanation.

Explanations should be brief and to the point and it is good practice to encourage children to set out their answers down the page, one line at a time.

The following example shows one way of doing this.

Q.

Simon has £6 to spend on chocolate for a party. If each chocolate bar costs 60p, how many bars could he buy?

A.

£6 is the same as 600p.

$$600 \div 60 = 10.$$

Simon could buy 10 chocolate bars.

The same method may be used both for simple and more complex problems.

Allow children to use a calculator for the more difficult examples if needed.

****Note to Parents:** If children have previously done little of this type of work before, they often find it very confusing, so try to build confidence, not destroy it. Adults find these problems **much** easier than children generally do.



Here are some problems written in words. They look quite long and they are all about using money.

You should read them very carefully to see what you need to do.

Your teacher or parent will show you how to set out your answers.

1. What is the total cost of a doll costing £3.90 and a book costing £1.00?
2. How much do four model cars cost, if each car costs 75p?
3. If a mug costs 56p, how many could I buy for £4?
4. Josephine has three 20p coins, two 50p coins and a 5p coin. How much does she have altogether?
5. John wants to buy a model steam engine that costs £5.60. His parents give him 50p a week towards it. How many weeks must he save to buy the steam engine?
6. John has a five pound note. He pays for himself and two friends to have a go on the dodgems. The dodgems costs 70p each. How much change does he get?
7. If a Bruiser comic costs 23p, how may pupils in a class could buy a copy if they have £5 between them?
8. Fred has three 10p coins, six 20p coins and a 50p coin. Has he enough money to buy a toy costing £2.10 ? Explain your answer.
9. How much change would there be from a £10 note if I spend £4.76?
10. A class reading book costs £3.20. How much would 36 books cost?



Here are some problems written in words. They look quite long and they are all about using money.

You should read them very carefully to see what you need to do.

Your teacher or parent will show you how to set out your answers.

1. A can of Doke costs 72p. What will 12 cans of Doke cost?
2. A pencil costs 12p and a ruler costs 20p. How much will six pencils and four rulers cost?
3. How many notepads costing thirty eight pence each could you buy for £6.00.
4. What is the total value of three five pound notes, six fifty pence coins and ten twenty pence coins?
5. Paula saves 55p a week from her pocket money. How much will she have in 18 weeks?
6. John saves 65p a week from his pocket money. How many weeks will he need to save to have £20 ?
7. A teacher took her class of thirty pupils to visit a castle. The entry cost was £1.20 for each pupil and £2.50 for the teacher. How much did the visit cost?
8. How much change would I get from £10 if I spent £4.23 ?
9. Those twenty four fruit cakes that Divvy ate cost 36p each. How much did they cost altogether?
10. What three coins do I need to make 65p?



These problems are about money. They are quite difficult, so you can use your calculator if you wish.

Lucky, Lucky!!!

1. Peter was decorating his front room. He bought three cans of paint. One cost £12.90, one cost £ 4.89 and the other cost £4.86. How much was this altogether? How much change did he get from £30 ?
2. How many books costing £3.34 can be bought for £40 ?
3. John spends £4.67 on Tuesday, £5.83 on Wednesday and £9.45 on Thursday. How much did he spend altogether?
4. Michael bought five CDs costing £2.76 each. How much did he spend? How much change did he get from £20 ?
5. For a school fete stall, the pupils in 4R bought the following:
Card £2.65 Balls £3.67 String £3.65
Could they buy all this with a £10 note? Explain your answer.
6. How many Teddies costing £6.98 could I buy for £20 ?
7. I bought some fruit using a £5 note. I received £2.88 change. How much did I spend?
8. I used a £10 note to buy a box of chocolates costing £3.77 and some sweets. I received £3.87 change. How much did the sweets cost?
9. If ribbon costs 59p per metre, how much would 65 metres cost?
10. What is £32.89 subtract £16.84 ?

Do well and you may get an increase in pocket money!!

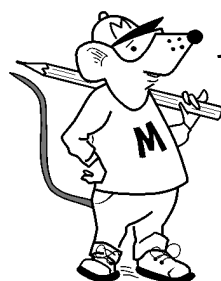


These problems are about money. They are quite difficult, so you can use your calculator if you wish.

Lucky, Lucky!!!

1. Mary was buying crockery for her flat. She bought four cups. One cost £3.87, one cost £2.76 and the other cost £3.25. How much was this altogether? How much change did she get from £10 ?
2. How many dogs costing £15.50 can be bought for £100 ?
3. Sam spends £12.76 in January, £23.72 in February and £17.45 in March. How much did she spend altogether?
4. Paul bought seven tapes costing £4.66 each. How much did he spend? How much change did he get from £40 ?
5. For a Christmas party, the pupils in 6M bought the following:
Cakes £4.22 Drinks £5.23 Sandwich fills £1.22
Could they buy all this with a £10 note? Explain your answer.
6. How many watches costing £5.36 could I buy for £30 ?
7. I bought some cereals using a £10 note. I received £4.65 change. How much did I spend?
8. I used a £20 note to buy a model plane costing £4.59 and some fuel. I received £13.23 change. How much did the fuel cost?
9. If lemonade costs 37p per litre, how much would 34 litres cost?
10. What is £27.43 subtract £22.99 ?

Do well and ask your teacher or parent for one of our certificates.



Think about these problems carefully before you start working on them

1. How many pence are there in a) £2.89 b) £3.11 c) £6.75 d) £23.81
2. Write these in pounds: a) 345p b) 90p c) 273p d) 382p
3. What coins could you use to pay for a pen costing 20p?
How could you do this if you only had silver coins?
4. Josephine spent one third of her saved money on a doll. How much did the doll cost if she had saved £21 ?
5. £5 of the money in Petra's purse was in notes. If she has £10 altogether, what fraction of it was in notes?
6. How many pence are there in a) £16.54 b) 73.98 c) £54 d) £100
7. What silver coins could you use to buy something costing 30p?
How many different ways of doing this can you find?
8. George had saved £20. He lost £5 of it at a fair. What fraction did he still have left?
9. Which is cheaper altogether: Three miles in a taxi at £1.25 per mile or Four miles in a rented car at £1.12 per mile?
10. How much more is six lots of £4.87 than three lots of £9.20 ?

Answers**Page 3**

1. £4.90 2. £3.00 3. 7 4. £1.65 5. 12 6. £2.90 7. 21
8. No. He has only £2.00 9. £5.24 10. £115.20

Page 4

1. £8.64 2. £1.52 3. 15 4. £20 5. £9.90 6. 31 7. £38.50
8. £5.77 9. £8.64 10. 50p + 10p + 5p

Page 5

1. £22.65 £7.35 2. 11 3. £19.95 4. £13.80 £6.20 5. Yes. Total £9.97
6. 2 7. £2.12 8. £2.36 9. £38.35 10. £16.05

Page 6

1. £9.88 £0.12 2. 6 3. £53.93 4. £32.62 £7.38 5. No. Total £10.67
6. 5 7. £5.35 8. £2.18 9. £12.58 10. £4.44

Page 7

1. a) 289 b) 311 c) 675 d) 2 381 2. a) £3.45 b) £0.90 c) £2.73 d) £3.82
3. Many combinations: $10 \times 2\text{p}$ etc. 20p or $2 \times 10\text{p}$ etc. 4. £7 5. $\frac{5}{10}$ or $\frac{1}{2}$
6. a) 1 654 b) 7 398 c) 5 400 d) 10 000 7. $3 \times 10\text{p}$ etc 8. $\frac{3}{4}$
9. Taxi 10. £1.62