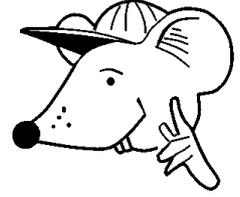


MATHEMATICS



N.S. Yr. 5 P.85

**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, discount

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.

Chris has £8 to spend on drinks for a party. If each bottle of drink costs 89p, how many bottles could he buy?

A.

£8 is the same as 800p.

$$800 \div 89 = 8.98$$

Chris could buy 8 bottles of drink.

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

Children should be familiar with common currencies such as U.S. dollars, French Francs and pesetas and be able to convert simple amounts in pounds sterling to these currencies.

They should also be able to calculate simple percentages of amounts of money.

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 price of a book costing £5.87 and a doll costing £3.77?
2. How much do sixteen toy prams cost, if each pram costs £3.67?
3. If a car kit costs £4.63, how many could I buy for £50?
4. Simon has seven 20p coins, six 50p coins and twelve 5p coins. How much does he have altogether?
5. Petra wants to buy a new ghetto blaster that costs £23.80. Her parents give her 2.70p a week towards it. How many weeks must she save to buy the ghetto blaster?
6. Michael has a twenty pound note. He pays for himself and five friends to go to a football match. The tickets costs 2.75p each. How much change does he get?
7. If an origami book costs £4.70p, how may pupils in a class could buy a copy if they have £100 between them?
8. Jojo has five 20p coins, seventeen 5p coins and six 50p coin. Has she enough money to buy a CD costing £4.30 ? Explain your answer.
9. How much change would there be from a £20 note if I spend £16.83?
10. A new story book costs £4.77. How much would 25 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 felt marker pen costs 89p. What will 48 pens cost?
2. A tape measure costs 37p and a pen costs 45p. How much will twelve tape measures and sixteen pens cost?
3. How many pads of paper costing one pound sixty each could you buy for £12.00.
4. What is the total value of two ten pound notes, eight five pound notes, ten fifty pence coins and seventeen twenty pence coins?
5. Michael saves 76p a week from his pocket money. How much will he have in 23 weeks?
6. James saves £1.85p a week from his pocket money. How many weeks will he need to save to have £40 ?
7. A teacher took her class of twenty eight pupils to visit a museum. The entry cost was £1.35 for each pupil and £4.50 for the teacher. How much did the visit cost?
8. How much change would I get from £20 if I spent £1.89 ?
9. Multy bought 35 Chocco biscuits for his birthday party. They cost 56p each. How much did he pay?
10. What four coins do I need to make £1 exactly?



These problems are about money. They are quite difficult, so you can use your calculator if you wish, but try to use it only for the harder ones.

1. What is the total of: £15.78, £27.80 and £36.82 ?
2. What is £37.98 subtract £12.95 ?
3. Simon spends £12.78 on Tuesday, £35.86 on Wednesday and £16.70 on Thursday. How much did he spend altogether?
4. Josephine bought ten puppets costing £3.20 altogether. How much did each one cost? How much change did she get from £5 ?
5. What is the sum of 89p, 45p, 83p and 42p ?
6. I bought four model cars costing £8.40 altogether. How much did each cost?
7. I bought 7 tickets to a motor race for £22.96 altogether. How much did each cost?
8. What is the total of £34.86, £23.94 and £12.46 ?
9. If light bulbs cost 56p each, how much will 34 bulbs cost?
10. Add £35.87 and £23.93 and take the total away from £72.45. Double your answer and write it down.

1. John had two five pound notes and one twenty pound note. Did he have enough money to buy three hi-fi speakers costing £9.99 each?



You need to think hard about each of these money problems. Read the questions very carefully.

2. How much change would you get from £10 for two dog leads costing £3.50 each?
3. How much change would you get from £30 for four footballs costing £4.56 each?
4. Simon spent £1.20 per month for four years on his comics. How much did he spend altogether?
5. Six people went to a concert and paid £33.96 for the tickets. How much was each ticket?
6. If petrol costs 67.8p per litre, how much would five litres cost?
7. I bought some cereals using a £10 note. I received £6.25 change. How much did I spend?
8. Which of these amounts of money cannot be made with exactly four coins: 20p 86p 9p 38p 64p 49p
9. You have three 20p stamps and five 25p stamps. Find all the different values of stamps you could stick on a parcel.
10. Which is greater, three lots of £23.67 or four lots of £18.55 ?



Use the following exchange rates for converting the currencies. You may need your calculator.

1.6 U.S. Dollars to the £1
8.8 French Francs to the £1
220 Spanish pesetas to the £1

1. How many Spanish pesetas would you get for a) £5 b) £7 c) £12
2. How many American dollars would you get for : a) £2 b) £4 c) £5.50
3. How many French Francs would you get for : a) £6 b) £9 c) £8.50
4. Peter's father buys a new television costing £200. He pays a deposit of 25%. How much deposit did he pay?
5. Kelly spends 30% of her wages on her flat rent. If she earns £200 per week, how much is her rent?
6. Addy and Subby buy two tins of Maths Rat food. The tins of food costs £16 altogether. Addy pays 40% of the cost. How much is this? How much did Subby pay?
7. In a sale a coat costs 25% less than its full price of £60. How much discount is there on the coat?
8. A dog basket cost £6 before a sale. In the sale it is given a discount of 20%. How much less did the basket cost in the sale?
9. A man bought a jacket with 25% off the normal price of £32. He paid with pesetas. How many pesetas did he need?
10. How many American dollars do you need to buy a holiday costing £325 ?

Answers**Page 3**

1. £9.64 2. £58.72 3. 10 4. £5 5. 9 6. £3.50 7. 21
8. Yes. She has £4.85 9. £3.17 10. £119.25

Page 4

1. £42.72 2. £11.64 3. 7 4. £68.40 5. £17.48 6. 22 7. £42.30
8. £18.11 9. £19.60 10. 50p + 20p + 20p + 10p

Page 5

1. £80.40 2. £25.03 3. £65.34 4. 32p £1.80 5. £2.59
6. £2.10 7. £3.28 8. £71.26 9. £19.04 10. £25.30

Page 6

1. Yes. Total £29.97 2. £3.00 3. £11.76 4. £57.60 5. £5.66
6. £3.39 7. £3.75 8. 86p 38p 49p 9. Many combinations
10. Four lots of £18.55

Page 7

1. a) 1 100 b) 1 540 c) 2 640 2. a) 3.2 b) 6.4 c) 8.8
3. a) 52.8 b) 79.2 c) 74.8 4. £50 5. £60
6. £6.40 £9.60 7. £15 8. £1.20
9. 5 280 10. 520