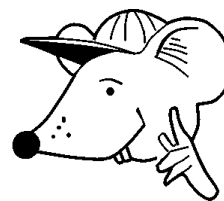




MATHEMATICS



N.S. Yr. 6 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.

If a television that costs £150 is reduced by 10%, what is the new selling price?

A.

10% of £150 = £15

New price = £150 - £15

= £135

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.

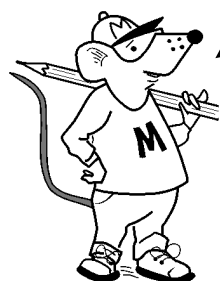


Here are some problems written in words. They look quite long and they are all about using money.

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 of £63.50, £48.70 and £11.58 ?
2. What is the total cost of a tape recorder costing £47.50, two speakers costing £4.20 each and a CD costing £8.90 ?
3. If ten atlases cost £45.60, how much does one cost?
4. Simon bought five dictionaries. Altogether they cost £12.50. What was the cost of one dictionary?
5. A crate of lemonade bottles is five bottles wide and seven bottles long. How many bottles does it hold? If one bottle of lemonade costs 46p, how much does a crate of lemonade cost?
6. A family of two parents and three children went to the cinema. Adult's tickets cost £3.60 each and children's tickets cost £1.80 each. How much did it cost the family to go to the cinema?
7. Two people had a ride on a fairground costing £1.70 each. They paid with a £5 note. How much change did they get?
8. Peter has saved £142.70 and Michael has saved £204.56. How much more has Michael saved than Peter?
9. What is the difference between £30 and £17.80 ?
10. What is the cost of one book if 100 cost £93 ?

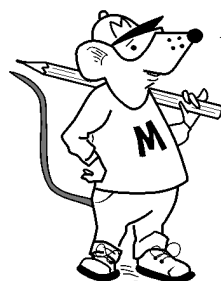


Here are some problems written in words. They look quite long and they are all about using money.

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1. A Buzzy frisbee costs £1.22 . What do 45 frisbees cost?
2. A toy pram costs £23.99 and a doll costs £3.34. How much will one pram and three dolls cost?
3. How many cassette tapes costing £3.99 each could I buy for £40 ?
4. What is the total price of seven jumpers costing £6.80 each and four tee shirts costing £3.99 each?
5. In a sale a coat is priced at £34.60. The label says that it is now half the original price. What was the original price?
6. Samantha's mother buys Samantha a new duvet cover costing £9.99. Samantha agrees to pay her mother back at 50p per week. How many weeks will she need to pay back her mother and what will she need to pay her on the last week?
7. On an open day a family go to Green Fields Day Centre. The trip costs them £45.67. On the open day the entry is half price. What would it have normally cost them to get in?
8. How much change would I get from £50 if I spent £17.93 ?
9. What is the cost of 25 cartoon books if each one costs £3.98 ?
10. Ten flower pots cost £12.60. How much do they cost each?



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: £267.99, £37.62 and £74.47 ?
2. How much more is £76.89 than £36.33 ?
3. Four brothers and sisters inherited £23 652 between them. How much did they receive each?

Lucky them!
4. Sixteen towns shared equally the cost of building a new exhibition centre costing £163 512. How much did each town pay towards the building?
5. What is the sum of £4.78, £9.99, £23.65 and £27.54 ?
6. I bought six Christmas vouchers for my friends costing £43.80 altogether. How much did each voucher cost?
7. Model cars are advertised in a sale at half price. I bought four costing £12.80 altogether. What was the original price of each car?
8. John chose to buy two tee shirts. He paid with a £10 note and received £3.17 change. Write down possible prices for his tee shirts.
9. Wendy bought two cakes with a £5 note. She received £2.15 change. If one cake cost £1.23, how much was the other cake?
10. When Kate bought a notice board and a set of felt pens, she received £12.80 change from a £20 note. If the felt pens cost £1.33, how much did the notice board cost?

Cheap Computer games!!!

Blotto	£14.99	Dicto	£8.99
Racer	£17.49	Buzztop	£7.50
Walker	£12.35	Green Dan	£6.98

Four children, Geng, Monica, Danny and Tanya, went to a fair and saw the advertisement above. They decided to buy some new games for their computers.

1. Geng bought two games that together came to £27.34. Which two games were they?
2. Monica decided to buy Walker and Buzztop. She had a £20 note. How much change did she get?
3. Danny bought two games with a twenty pound note. He received £4.03 change. Which two games did he buy?
4. Tanya bought three games that totalled £26.83. One of the games was Buzztop. What were the other two?
5. It was Tanya's birthday so the other three children agreed to buy her a game as a present. They decided to put in £5 each. What was the most expensive game they could afford for Tanya's present? If they had bought two games instead, which two would they be?
6. What is the difference in price between a Blotto and two Buzztop games?
7. Geng noticed a sign saying:

All computer games are half price

What was the original price of each of the six games?



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

2550 lira to the £1

8.8 French Francs to the £1

1. How many lira would you get for **a)** £20 **b)** £84 **c)** £1 000
2. How many French Francs would you get for : **a)** £90 **b)** £4.50
c) £3 500
3. Find the price in lira of a van costing £12 750.
4. A rich man has a swimming pool built, costing 60 690 000 lira. What is this in pounds sterling?
5. V.A.T. is calculated at 17.5%. What is the V.A.T. on £350 ?
6. John buys a watch costing £24 without V.A.T. How much does he pay including V.A.T. ?
7. In a sale a television costs 15% less than its full price of £240. How much discount is there on the television? What is its new price?
8. A girl wants to buy a jacket costing £60, but sees it 35% cheaper in a French town. What would the jacket cost her in French Francs?
9. Calculate the V.A.T. at 17.5% on £250 000.
10. How many lira would you be able to exchange for £450 ?

Answers**Page 3**

1. £123.78 2. £64.80 3. £4.56 4. £2.50 5. 35 bottles. £16.10
6. £12.60 7. £1.60 8. £61.86 9. £12.20 10. 93p

Page 4

1. £54.90 2. £34.01 3. 10 4. £63.56 5. £69.20 6. 20 weeks 49p
7. £91.34 8. £32.07 9. £99.50 10. £1.26

Page 5

1. £380.08 2. £40.56 3. £5 913 4. £10 219.50 5. £65.96
6. £7.30 7. £6.40 8. Any prices that add to £6.83 9. £1.62 10. £5.87

Page 6

1. Blotto and Walker 2. £0.15 3. Dicto and Green Dan 4. Walker and Green Dan
5. Blotto. Buzztop and Green Dan 6. 1p 7. Blotto £29.98
Racer £34.98 Walker £24.70 Dicto £17.98 Buzztop £15 Green Dan £13.96

Page 7

1. a) 51 000 b) 214 200 c) 2 550 000 2. a) 792 b) 39.6 c) 30 800
3. 32 512 500 4. £23 800 5. £61.25
6. £28.20 7. £36 £204 8. FF343.20
9. £43 750 10. 1 147 500