Solving Fraction Problems - Money

I can solve money problems involving unequal sharing and grouping.

Solve the following problems. For at least one these problems use a bar model to help you solve the problem. Show all stages of your working out:

1. Junaid has £30. He earned $\frac{1}{3}$ of the money by doing jobs and the rest was birthday money. How much of the £30 was birthday money?

_____

2. A sweet shop sells the following items:

   Box of chocolate mints £8 | Box of toffees £4 | Tub of lollipops £6

a. The shop has a special offer, offering $\frac{1}{4}$ off all items. How much would you pay for each item now?

_____

_____

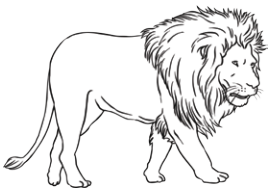
_____

Solving Fraction Problems - Money

b. After the reduction Sunita buys two boxes of toffees and one tub of lollipops. She pays with a £20 note. How much change would she receive?

_____

3. Jasmine (age 10), her brother Philip (age 7), her baby sister Sienna and her Mum and Dad are going to the zoo. The cost for adults is £10 and children's tickets are $\frac{3}{4}$ of the adult price – babies are free. How much will it cost for admission for the family to the zoo?



_____

Solving Fraction Problems - Money

I can solve money problems involving unequal sharing and grouping.

Solve the following problems. For at least one these problems use a bar model to help you solve the problem. Show all stages of your working out:

1. Class 6 are going to the pantomime. There are 30 children and 5 adults going to the pantomine. Tickets for adults cost £12.00 and children's tickets are $\frac{3}{4}$ of the adult price. As it is a school party, there is $\frac{1}{4}$ off the total bill. How much would it cost the class to visit the pantomime?

_____

2. At the Christmas Fayre, £600 was raised in total. Food and drink raised $\frac{1}{3}$ of the total, games raised $\frac{2}{5}$ of the total and toy sales was a $\frac{1}{4}$ of the total. The rest of the money came from the other stalls. How much money did the other stalls raise?

_____

Solving Fraction Problems - Money

3. At the funfair, the big wheel costs £2.00 per ride and the roller coaster costs £1.50 per ride. Joel spends £18 on rides. $\frac{2}{3}$ of his money is spent on the big wheel and the rest was spent on the roller coaster. How many times does he go on each ride?

_____

Solving Fraction Problems - Money

I can solve money problems involving unequal sharing and grouping.

Solve the following problems. For at least one these problems use a bar model to help you solve the problem. Show all stages of your working out:

1. Three shops have special offers for computers:

Shop A	Shop B	Shop C
$\frac{1}{6}$ off the total cost	Buy one computer, get the second half price	Spend over £500, get £60 off total bill

The same computer costs the following in each shop:

Shop A	Shop B	Shop C
£375	£400	£325

If a customer buys two computers, which shop would offer the best deal?

_____

If a customer buys four computers, which shop offers the best deal?

_____

Solving Fraction Problems - Money

2. 10 000 people attended a football match. Tickets cost £12 for adults and £8 for children. $\frac{7}{10}$ of the crowd were adults. $\frac{3}{5}$ of the people attending bought a programme which cost £4. Another £22 000 was taken on food and drink.

a. How much money was taken at the event?

_____

b. The club donated $\frac{1}{10}$ of the takings to two charities. If each charity received an equal amount, how much would each charity receive?

_____

Solving Fraction Problems - Money

Answers

Children need to show how they solved the questions. At least one question's working out should include a bar model.

1. Junaid has £30. He earned $\frac{1}{3}$ of the money by doing jobs and the rest was birthday money. How much of the £30 was birthday money?

   £20 was birthday money.

2. A sweet shop sells the following items:

   Box of chocolate mints £8 | Box of toffees £4 | Tub of lollipops £6

a. The shop has a special offer, offering $\frac{1}{4}$ off all items. How much would you pay for each item now?

Box of chocolate mints now £6.

Box of toffees now £3.

Tub of lollipops now £4.50.

b. Sunita buys two boxes of toffees and one tub of lollipops. She pays with a £20 note. How much change would she receive?

Sunita receives £9.50 change.

3. Jasmine (age 10), her brother Philip (age 7), her baby sister Sienna and her Mum and Dad are going to the zoo. The cost for adults is £10 and children's tickets are $\frac{3}{4}$ of the adult price – babies are free. How much will it cost for admission for the family to the zoo?

   It will cost the family £35.

Solving Fraction Problems - Money

Answers

Children need to show how they solved the questions. At least one question's working out should include a bar model.

1. Class 6 are going to the pantomime. There are 30 children and 5 adults going to the pantomine. Tickets for adults cost £12.00 and children's tickets are $\frac{3}{4}$ of the adult price. As it is a school party, there is $\frac{1}{4}$ off the total bill. How much would it cost the class to visit the pantomime?

   The total to be paid is £247.50.

2. At the Christmas Fayre, £600 was raised in total. Food and drink raised $\frac{1}{3}$ of the total, games raised $\frac{2}{5}$ of the total and toy sales was a $\frac{1}{4}$ of the total. The rest of the money came from the other stalls. How much money did the other stalls raise?

   The other stalls raised £10.

3. At the funfair, the big wheel costs £2.00 per ride and the roller coaster costs £1.50 per ride. Joel spends £18 on rides. $\frac{2}{3}$ of his money is spent on the big wheel and the rest was spent on the roller coaster. How many times does he go on each ride?

   Big wheel: six rides.

   Roller coaster: four rides.

Solving Fraction Problems - Money

Answers

Children need to show how they solved the questions. At least one question's working out should include a bar model.

1. Three shops have special offers for computers:

Shop A	Shop B	Shop C
$\frac{1}{6}$ off the total cost	Buy one computer, get the second half price	Spend over £500, get £60 off total bill

The same computer costs the following in each shop:

Shop A	Shop B	Shop C
£375	£400	£325

If a customer buys two computers, which shop would offer the best deal?

Shop C offers the best deal for two computers (£590).

If a customer buys four computers, which shop offers the best deal?

Shop B offers the best deal for four computers (£1200).

2. 10 000 people attended a football match. Tickets cost £12 for adults and £8 for children. $\frac{7}{10}$ of the crowd were adults. $\frac{3}{5}$ of the people attending bought a programme which cost £4. Another £22 000 was taken on food and drink.

a. How much money was taken at the event?

£154 000 was taken.

The club donated $\frac{1}{10}$ of the takings to two charities. If each charity received an equal amount, how much would each

Each charity would receive £7700.

You may wish to mark this correct if the answer is $\frac{1}{20}$ of the answer to Question 2a) as this answer is dependent upon the answer to this question.