

4/5/20 Using the four operations to solve money problems.
This week we are going to look at some varied fluency and problem solving . Try to explain your answers as best you can.

Lesson 1

Varied Fluency 1

Which coins would complete this bar model?

£1.60			

You can use coins more than once.



**Remember that each part is the same size so you need to put the same amount in each one.
You can make this amount using different coins in each part. Make the amount is the same.**

Varied Fluency 1

Which coins would complete this bar model?



You can use coins more than once.



Possible answer


What other ways
have you used?


Try these questions.

1a. Which coins would complete this bar model?

£0.60					

You can use coins more than once.







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1b. Which coins would complete this bar model?

£0.80			

You can use coins more than once.







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5a. Which coins would complete this bar model?

£1.10				

You can use coins more than once.







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5b. Which coins would complete this bar model?

£3.60					

You can use coins more than once.







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9a. Which coins would complete this bar model?

£2.48							

You can use coins more than once.







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9b. Which coins would complete this bar model?

£10.45				

You can use coins more than once.





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1a. Possible answer:



1b. Possible answer:



5a. Possible answer:



5b. Possible answer:



9a. Possible answer:



9b. Possible answer:

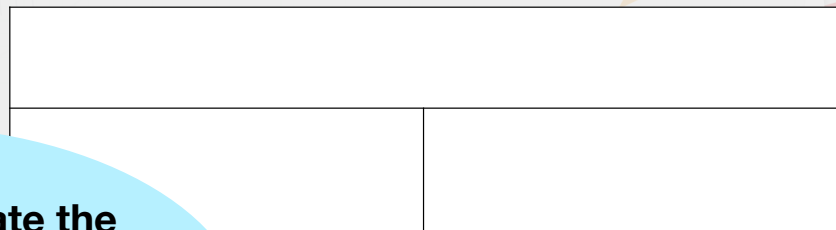


Varied Fluency 2

Complete the bar model for the problem.

Bobby goes to the shopping centre. He spends £12.50 on a new pair of shorts and £10.80 on a t-shirt.

How much money does he spend altogether?




You have to calculate the top bar.
Look at the question.
What do you need to do to find his total spend?



Now have a go at the questions below.


2a. Complete the bar model for the problem.

Casey has £12. She spends £1.50. How much does she have left?

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2b. Complete the bar model for the problem.

Hashim has £22. After he has visited the shops, he has half of his money left. How much did he spend?

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6a. Complete the bar model for the problem.

Emma has £24.50. She spends £3.75 How much does she have left?

 VF


6b. Complete the bar model for the problem.

Lesley has £36. After he has visited the shops, he has a quarter of his money left. How much did he spend?

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10a. Draw a bar model to show:

Rosa spends £4.86 on a birthday present, 78p on wrapping paper and £1.55 on a card. What is the total amount spent?

 VF

10b. Draw a bar model to show:

Corbin has £48.80 to spend on a party. He spends five eighths of his money on food and a quarter on drinks. How much has he got left to spend on decorations?

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£12	
£10.50	£1.50

2b.

£22	
£11	£11

6a.

£24.50	
£20.75	£3.75

Emma has £20.75 left.

6b.

£36	
£27	£9

Lesley has spent £27.

10a.

£7.19		
£4.86	£1.55	78p

Rosa spends £7.19 in total.

10b.

£48.80		
£12.20	£30.50	£6.10

Corbin has £6.10 left to spend.

Varied Fluency 3

Calculate the missing numbers:

$$6 \times \boxed{} = £1.80$$

$$\boxed{} \times 7 = £1.40$$

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Think about the times table facts.
£1.80 is the answer to 6 lots of ?

$$6 \times ? \text{ p} = 18\text{p}$$

$$18 \text{ p} \times 10 = 180\text{p} = £1.80$$

Varied Fluency 3

Calculate the missing numbers:

$$6 \times \boxed{\text{£}0.30} = \text{£}1.80$$

$$\boxed{\text{£}0.20} \times 7 = \text{£}1.40$$

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Now try these questions:
You are not expected to work out the answers in your head.

You can use jottings ,too,

3a. Calculate the missing numbers:

$$\boxed{} \times 5 = 45\text{p}$$

$$\text{£}1.75 + \boxed{} = \text{£}2$$



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3b. Calculate the missing numbers:

$$\text{£}50 - \boxed{} = \text{£}24$$

$$\boxed{} \times 30\text{p} = 90\text{p}$$



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7a. Calculate the missing numbers:

$$\boxed{} + \text{£}2.65 = \text{£}5$$

$$8 \times \boxed{} = \text{£}2.40$$



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7b. Calculate the missing numbers:

$$\text{£}10 - \boxed{} = \text{£}3.82$$

$$\boxed{} \div 10 = \text{£}0.20$$



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11a. Calculate the missing numbers:

$$\boxed{} = \text{£}3.60 \div 9$$

$$6 \times \boxed{} = \text{£}3.66$$



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11b. Calculate the missing numbers:

$$\text{£}12.87 = \boxed{} - 399\text{p}$$

$$\boxed{} + \text{£}4.56 + 584\text{p} = \text{£}20$$



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3a. 9p and 25p

3b. £26 and 3

7a. £2.35 and £0.30 (or 30p)

7b. £6.18 and £2

11a. £0.40 or 40p and £0.61 or 61p

11b. £16.86 and £9.60.

Varied Fluency 4

The table below shows ticket prices for the theatre.

	Afternoon	Evening
Adult	£16.25	£20.50
Child	£8.75	£9.50

How much would it cost for two adults and two children to visit the theatre during the afternoon?

$$\begin{aligned} \text{£}16.25 \times 2 &= \text{£}32.50 \\ \text{£}8.75 \times 2 &= \text{£}17.50 \\ \text{£}32.50 + \text{£}17.50 &= \text{£}50 \end{aligned}$$

4a. The table below shows the entrance prices for a Science museum.

	Weekday	Weekend
Adult	£8	£10
Child	£4.50	£5.50

How much would it cost for one adult and one child to visit the Science Museum at the weekend?



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4b. The table below shows the entrance prices for the Sea Creatures Centre.

	Weekday	Weekend
Adult	£15	£22
Child	£7.50	£10.25

How much would it cost for an adult and a child to visit the Sea Creatures Centre at the weekend?



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8a. The table below shows the entrance prices for the funfair.

	Weekday	Weekend
Adult	£15.50	£18.50
Child	£7.75	£9.25

How much would it cost for one adult and two children to visit the funfair during the week?



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8b. The table below shows the entrance prices for the zoo.

	Weekday	Weekend
Adult	£17	£21.25
Child	£9.50	£12.50

How much would it cost for two adults and two children to visit the zoo at the weekend?



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12a. The table below shows the entrance prices for the theme park.

	Nov – Mar	Apr – Oct
Adult	£15.85	£25.85
Child	£8.99	£18.99
Family (2 adults and 2 children)	£45	£85

How much cheaper is it for 2 adults and 2 children to buy a family ticket than buy separate tickets during May?



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12b. The table below shows the prices for train tickets.

	*Railcard users benefit from half price tickets.	07.00 – 09.00 and 16.00 – 18.00	All other times
Adult		£8.75	£6.40
Child		£4.35	£3.80

How much does it cost for 3 adults and 4 children to travel at 2.30pm if one adult and one children have a railcard?



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