Maths – Activity 1

LO: To add and subtract numbers with up to four digits.

Core skill – Solve these calculations using the formal written method.

 1. £16.45
 2. £19.99
 3. £12.43
 4. £14.93

 +£13.30
 +£ 4.56
 +£10.98
 +£13.47

 +£13.47

 5. £29.50
 6. £12.50
 7. £15.75
 8. £10.50

 - £18.94
 -£ 7.08
 -£12.25
 -£ 9.00

<u>Depth task</u> – Solve the word problems using addition or subtraction column method.

- 1. You have £5.00 in your pocket and you visit the shop. You buy a magazine for £1.50 and a book for £2.20. How much change do you have?
- 2. You have a £20 note to pay for yourself and one friend at the Cinema. The tickets cost £4.50 and you buy a drink each for £2.00. How much do you spend at the Cinema? How much change do you receive from your £20?
- 3. You have £50, which you received in birthday money. You decide to buy a ball for £7.00, a book for £6.50 and a DVD for £12.00. How much money will you have left?
- 4. Sam is saving up to buy his mum some chocolates for her birthday. He has £3.45 in his piggy bank; his dad gave him £2.39 and his nan gave him £1.76. The chocolates cost £12.50. How much more does Sam need to save?

Greater Depth task

To estimate my answer, I can round to the nearest pound or to the nearest 10 pounds. Remember we round down if the tenths digit is 1, 2, 3 or 4. We round up if the tenths digit is 5, 6, 7, 8 or 9.

Faiza wants to buy a computer game. It costs £38.96.

He has £50 in his bank account.

He estimates he will have £11 left after he has bought the game.

Is Faiza's estimation correct? Prove it.

Maths – Activity 2

LO: To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use.

Core skill – Solve these calculations using the formal written method.

1. £16.45 2. £12.43 3. £67.54 4. £19.99

+£13.20 +£09.98 +£33.46 +£10.99

 5. £38.47
 6. £52.03
 7. £25.94
 8. £40.25

 - £21.25
 - £31.42
 - £14.06
 -£15.00

<u>Depth task</u> – Solve the word problems using addition or subtraction, formal written method.

- 1. Hannah went shopping with £15.10. She spent half of her money on a pair of sunglasses. How much money did she have left? She then bought some sandals for £3.45. How much money did Hannah come home with?
- 2. A child's ticket to the cinema costs £6.65, whilst an adult's costs £9.75. How much would it cost for 2 adults and 2 children to go to the cinema?
- 3. Amir has £1,000. He buys a scooter for £345 and a skateboard for £110 How much money does he have left?

Greater Depth task - Tamsin has £4,000 to spend on new items for her bedroom. What can she buy from the list below that leaves her with £569?



£899

LO: To add and subtract numbers with up to four digits using the formal method of columnar addition.

Core skill 1 – Estimate the answer to the calculation below. Round to the nearest tens.

£42.65 + £35.09

Core skill 2 - What calculations can you create from the following numbers using addition and subtraction?

£14.25

£22.05

£36.30

Example:

£36.30 - £22.05 = £14.25

Depth Task 1

Mark each calculation with a tick or cross.

	✓ or ≭
£5.00 - £2.30 = £3.70	
£10.00 - £1.70 = £8.30	
£3.90 + £1.10 = £5.00	
£7.60 + £3.40 = £10.00	

Depth task 2-Solve the problem below.



Jim

£3.98

at the items for sale and chooses some to buy with his pocket money.

Which items did he buy if he spent:

£4.98

£4.97

£6.98

Could he spend £5.98?

True or False?

Maria bought a cup of a coffee that costs £2.20. Maria paid with a £10.00 so she gets and £8.80 change.

<u>Greater Depth task</u> – Use the inverse operation to solve the problems below.

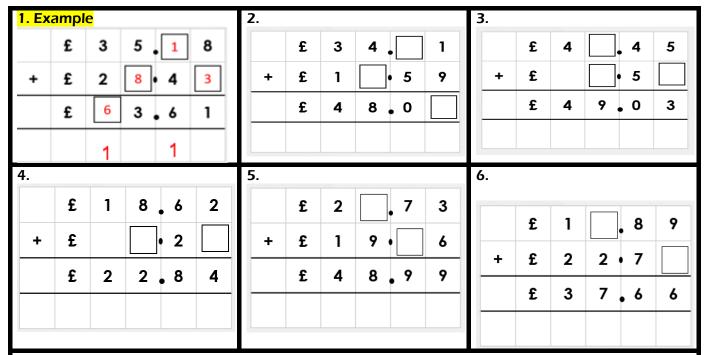
Find A, B and C.

- A + £576.24 = B
- £696.23 B = £117.46
- A + £337.35 = C

Activity 4

LO: To add and subtract money up to four digits.

Core skill – Fill in the missing values.



Depth task – Solve the word problems below using your knowledge of addition and subtraction.

- 1. Jamie buys a twirl for 38p and a double decker for 47p and a galaxy for 76p. He has £3.75 left. How much money did he have to begin with?
- 2. Jason buys flowers for his mum at the market. The flowers cost £5.67. Jason has £8.44. How much change would he get if he gave the shopkeeper all his money?

 How much change would he get if he only gave the shopkeeper £8.00?
- 3. Jean buy a pen for £2.00, a pencil for 50p and a ruler for £30p. Jean's dad gives him £5.00 and tells Jean to keep the change once he has paid. How much does he keep?

Greater Depth task

Remember we round down if the tenths digit is 1, 2, 3 or 4. We round up if the tenths digit is 5, 6, 7, 8 or 9.

Anna and Rob are estimating the answer to £27.93 + £46.29 =

Who makes the most sensible estimate? Explain your choice.



Maths - Activity 5

LO: To estimate and use inverse operations to check answers to a calculation.

Core skill - Match the two amounts that give an approximate answer of £23.

£17.15

£14.34

£10.60

£5.88

£9.41

£12.24

Depth task

Estimate the answers to the nearest tenths for the following calculations.

C. £
$$14.31 + £22.79$$

Example:

£45.72

£ 2.32

£43.40

£43.40 rounded to the nearest tenths is £43.4

Depth task 2

Choose the best calculation for an estimated answer of £40.00. Rounded to the nearest ten.

<u>Greater Depth task – Complete the table.</u>

The table shows the total cost of tickets sold at a theme park over a weekend. Use addition and subtraction to complete the table.

	Adult	Child	Total
Saturday		£267.34	
Sunday	£116.146	£276.2L	£392.70
Total	£272.69		£816.27

Answers - Activity 1

Core skill

£16.45

2. £19.99

3. £12.43 4. £14.93

+£13.30 £29.75	+£ 4.56 <u>£24.55</u> 11.1	+£10.98 £23.41 1.1	+£13.47 <u>£28.40</u> 1.1
5. £2\$.50	6. £12.50	7. £15.75	8. £10.50
- £18.94	-£ 7.08	- £12.25	-£ 9.00
£10.56	£ 5.42	£03.50	£ 1.50

Depth task – Solve the two steps word problems below.

1. You have £5.00 in your pocket and you visit the shop. You buy a magazine for £1.50 and a book for £2.20. How much change do you have?

£1.50+£2.20 = £3.70 £5.00-£3.70=£1.30

2. You have a £20 note to pay for yourself and one friend at the Cinema. The tickets cost £4.50 and you also buy a drink each for £2.00. How much do you spend at the Cinema? How much change do you receive from your £20?

£4.50+£2.00= £6.50 £20.00-£6.50 = £13.50

3. You have £50 which you received in birthday money. You decide to buy a ball for £7.00, a book for £6.50 and a DVD for £12.00. How much money will you have left?

£7.00+£6.50+£12.00 = £25.50 £50.00-£25.50= £24.50

4. Sam is saving up to buy his mum some chocolates for her birthday. He has £3.45 in his piggy bank, his dad gave him £2.39 and his nan gave him £1.76. The chocolates cost £12.50. How much more does Sam need to save?

£3.45+£2.39+£1.76 = £7.60 £12.50-£7.60 = £4.90

Greater Depth task

Faiza is correct, because £38.96 rounds up to £39. £50 - £39 = £11

Answers - Activity 2

Core Skill - Find the missing number using the formal written method.

1. £16.45 +£13.20

£29.65

2. £12.43 +£ 9.98 £22.41

£67.54 3. +£23.46 £91.00

4. £19.99 +£10.99 £30.98

5. £38.47 - £21.25

6. £52.03 - £31.42

7. £25. 4 8. £ 0.25 - £<u>14.06</u> £11.88

-£15.00

<u>Depth task</u> – Solve the word problems using addition or subtraction formal written method.

1. Hannah went shopping with £15.10. She spent half of her money on a pair of sunglasses. How much money did she have left? She then bought some sandals for £3.45. How much money did Hannah come home with?

Half of £15.10 = £7.55 £7.55 - £3.45 = £4.10

2. A child's ticket to the cinema costs £6.65, whilst an adults costs £9.75. How much more does an adult ticket cost? How much would it cost for 2 adults and 2 children to go to the cinema?

£9.75-£6.65 = £3.102 adults = £9.75 + £9.75 = £19.502 children = £6.65 + £6.65 = £13.30Total £19.50 + £13.30 = £32.80

3. Amir has £1,000. He buys a scooter for £345 and a skateboard for £110. How much money does he have left?

£345 + £110 = £455£1000-£455 = £545

Greater Depth task

The total spent was £3431. Tamsin bought a wardrobe for £1592, a chest of drawers for £836, a bed for £899 and a rug for £104.

£1592+£836+£899+£104 = £3431

£4000-£569 = £3431

Answers - Activity 3

<u>Core skill 1 -</u> Estimate the answer to the calculation below. Round to the nearest tens.

£42.65 + £35.09

£42.65 +£35.09 £77.74

Rounded to the nearest tens is

£80.00

<u>Core skill 2 = -</u> What calculations can you create from the following numbers using addition and subtraction?

£14.25

£22.05

£36.30

Example:

£36.30 - £22.05 = £14.25

Answers

£36.30 - £14.25 = £22.05

£14.25 + £22.05 = £36.30

£22.05 + £14.25 = £36.30

Depth task 1

	√ or ×
£5.00 - £2.30 = £3.70	ما
£10.00 - £1.70 = £8.30	1
£3.90 + £1.10 = £5.00	X
£7.60 + £3.40 = £10.00	X

a. False

Depth task 2





Which items did

he buy if he spent:

£4.98 - bear and doll

£4.97 - ball and vase

£6.98 – ball and bear. Altogether with a total cost of £6.97 with a penny change.

Could he spend £5.98 – Yes, he could buy a bear, doll and vase which all cost - £6.97 with a remaining change of a penny.

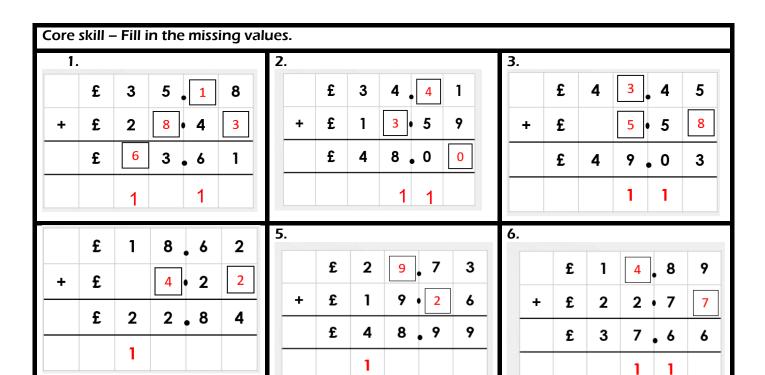
Greater Depth task

A = £2.53

C = £339.88

B = £578.77

Answers - Activity 4



Depth task - Solve the word problems below using your knowledge of addition and subtraction.

1. Jamie buys a twirl for 38p and a double decker for 47p and a galaxy for 76p. He has £3.75 left. How much money did he have to begin with?

2. Jason buys flowers for his mum at the market. The flowers cost £5.67. Jason has £8.44. How much change would he get if he gave the shopkeeper all his money?

How much change would he get if he only gave the shopkeeper £8.00?

3. Jean buy a pen for £2.00, a pencil for 50p and a ruler for £30p. Jean's dad gives him £5.00 and tells Jean to keep the change once he has paid. How much do he keep?

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£2.00 + 50p + 30p = £2.80
£5.00 - £2.80 = £2.20
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Greater Depth task

Rob has made the most sensible estimate because £27.93 + £46.29 when rounded to the nearest 10 is £28.00 + £46.00 = £74.00.

Core skill

Task: Match numbers which would add together to give an approximate answer of £23. Draw a line to match the correct one.



Depth task 1

Estimate the answers to the nearest tenths for the following calculations:

C. £
$$14.31 + £22.79$$

A. £43.4 B. £38.2 C. £37.1

Depth task 2

Choose the best calculation for an estimated answer of £40.00. Rounded to the nearest ten.

Answer - A

Greater Depth task

The table shows the total cost of tickets sold at a theme park over a weekend. Use addition and subtraction to complete the table.

	Adult	Child	Total
Saturday	£l56.23	£267.34	£4,23.57
Sunday	£116.446	£276.2L	£392.70
Total	£272.69	£543.58	£816.27