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

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

1. £16.45
$+£ 13.30$
2. £19.99
$+£ 4.56$
3. £12.43
$+£ 10.98$
4. $\begin{array}{r}£ 14.93 \\ +£ 13.47 \\ \hline\end{array}$
5. £29.50
6. £12.50
7. £15.75
8. $£ 10.50$

- £18.94
-£ 7.08
-£12.25
-£ 9.00

Depth task - 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
$+£ 13.20$
+£09.98
3. £67.54
$+£ 33.46$
4. £19.99 $+£ 10.99$
5. £38.47
6. £52.03
7. £25.94
8. £40.25

- £21.25
- £31.42
- £14.06
-£15.00

Depth task - 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 $\mathbf{2}$ adults and $\mathbf{2}$ 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 $£ 569$ ?


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


## Activity 4

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

Core skill - Fill in the missing values.


## 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.


## Depth task

Estimate the answers to the nearest tenths for the following calculations.
A. $£ 45.72-£ 2.32$
B. $£ 46.08$ - $£ 7.84$ 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.

$$
\begin{aligned}
& \text { A. } £ 19.70+£ 24.58 \\
& \text { B. } £ 57.94-£ 56.31 \\
& \text { C. } £ 28.69+£ 16.49
\end{aligned}
$$

Greater Depth task - Complete the table.
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 | $£ 116.46$ | $£ 276.24$ | $£ 392.70$ |
| Total | $£ 272.69$ |  | $£ 816.27$ |

Answers - Activity 1
Core skill


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

1. £16.45
$+£ 13.20$
£29.65
2. £12.43 $\begin{array}{r}+£ 9.98 \\ \hline \frac{£ 2.41}{1.1}\end{array}$
3. $£ 5403$

- £31.42
£20.61

3. $£ 67.54$

4. $£ 19.99$
$+£ 10.99$
$\frac{£ 30.98}{1.1}$
5. $£^{3} 0.25$
6. £25.94

- £14.06
£11.88
-£15.00
£25.25

Depth task - 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 = £3.10
2 adults $=£ 9.75+£ 9.75=£ 19.50$
2 children $=£ 6.65+£ 6.65=£ 13.30$
Total £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 $£ 343$ 1. 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

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

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
Answers
£36.30-£14.25 = £22.05
£14.25 + £22.05 = £36.30
£22.05 + £14.25 = £36.30

| Depth task 1 |  | Depth task 2 |
| :---: | :---: | :---: |
|  | $\checkmark$ or $\times$ |  |
| $£ 5.00-£ 2.30=£ 3.70$ |  |  |
| $£ 10.00-£ 1.70=£ 8.30$ |  | , |
| $£ 3.90+£ 1.10=£ 5.00$ | X |  |
| $£ 7.60+£ 3.40=£ 10.00$ | X | £3.98 £4.00 Which |
| a. False |  | he buy if he spent: <br> $£ 4.98$ - bear and doll <br> $£ 4.97$ - ball and vase <br> $£ 6.98$ - ball and bear. Altogether with a total cost of $£ 6.97$ with a penny change. <br> 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 |  |  |
| $\begin{aligned} & \mathrm{A}=£ 2.53 \\ & C=£ 339.88 \\ & B=£ 578.77 \end{aligned}$ |  |  |

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 $\mathbf{3 8 p}$ and a double decker for 47 p and a galaxy for $\mathbf{7 6 p}$. He has $£ 3.75$ left. How much money did he have to begin with?
$38 p+47 p+76 p=£ 1.61$
$£ 3.75$ +£1.61 = £5.36
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 $£ 8.00$ ?
£8.44-£5.67 = £2.77
£8.00-£5.67 = £2.33
3. Jean buy a pen for $£ 2.00$, a pencil for 50 p and a ruler for $£ 30$ p. Jean's dad gives him $£ 5.00$ and tells Jean to keep the change once he has paid. How much do he keep?
$£ 2.00+50 p+30 p=£ 2.80$
£5.00-£2.80 = £2.20

## 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:
A. $£ 45.72$ - $£ 2.32$
B. $£ 46.08$ - $£ 7.84$
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
A. $£ 19.70+£ 24.58$
B. $£ 57.94$ - £56.31
C. $£ 28.69+£ 16.49$

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 | $£ 156.23$ | $£ 267.34_{4}$ | $£ L_{4} 23.57$ |
| Sunday | $£ 116.46$ | $£ 276.24_{4}$ | $£ 392.70$ |
| Total | $£ 272.69$ | $£ 54.3 .58$ | $£ 816.27$ |

