

Calculation Problems

Practice Worksheet (Foundation Tier)

I DO

Catherine buys 3 coffees at £2.45 each and 2 muffins at £1.80 each.

She pays with a £20 note.

Work out how much change Catherine should get.

WE DO

James buys 4 notebooks at £1.75 each and 3 pens at £0.85 each.

He pays with a £10 note.

Work out how much change James should get.



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YOU DO 1

Mia buys 2 sandwiches for £3.10 each and 4 drinks for £1.25 each.

She pays with a £20 note.

Work out how much change Mia should get.

YOU DO 2

Leo buys 5 packets of crisps at 45p each and 2 chocolate bars at 80p each.

He pays with a £5 note.

Work out how much change Leo should get.



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CHALLENGE

Aiden wants to buy a pen for every student in Year 7.

There are 130 students in Year 7.

A pack of 8 pens costs £2.40.

Work out how much Aiden will have to pay for the pens in total.

PRACTICE PERFECT

Work out the following calculation problems. Show your working.

1. Sarah buys 5 notebooks at 75p each. She pays with a £10 note. Work out how much change she gets.
2. Amelia wants to buy 6 sausage rolls. Each sausage roll costs 84p. She pays with a £10 note. Work out how much change she gets.
3. Liam goes to a cafe. He buys 3 coffees for £1.60 each, 2 teas for £1.10 each, and 4 cakes for £2.15 each. Work out the total amount Liam spends.
4. Ava has £5 to spend on chocolate bars. Each chocolate bar costs £0.35. Work out how much change Ava will get if she buys as many as she can.
5. Mason buys 4 pens for 28p each. He pays with a £5 note. Work out how much change Mason will get.



ANSWERS & WORKED SOLUTIONS

I Do

Step 1: Calculate the cost of the coffees: $3 \times £2.45 = £7.35$

Step 2: Calculate the cost of the muffins: $2 \times £1.80 = £3.60$

Step 3: Calculate total cost: $£7.35 + £3.60 = £10.95$

Step 4: Calculate change: $£20.00 - £10.95 = £9.05$

Answer: £9.05

We Do

Step 1: Calculate the cost of notebooks: $4 \times £1.75 = £7.00$

Step 2: Calculate the cost of pens: $3 \times £0.85 = £2.55$

Step 3: Calculate total cost: $£7.00 + £2.55 = £9.55$

Step 4: Calculate change: $£10.00 - £9.55 = £0.45$

Answer: £0.45 (or 45p)

You Do 1

Step 1: Calculate the cost of sandwiches: $2 \times £3.10 = £6.20$

Step 2: Calculate the cost of drinks: $4 \times £1.25 = £5.00$

Step 3: Calculate total cost: $£6.20 + £5.00 = £11.20$

Step 4: Calculate change: $£20.00 - £11.20 = £8.80$

Answer: £8.80

You Do 2

Step 1: Calculate the cost of crisps: $5 \times £0.45 = £2.25$

Step 2: Calculate the cost of chocolate bars: $2 \times £0.80 = £1.60$

Step 3: Calculate total cost: $£2.25 + £1.60 = £3.85$

Step 4: Calculate change: $£5.00 - £3.85 = £1.15$

Answer: £1.15

Challenge

Step 1: Find how many packs are needed. $130 \div 8 = 16.25$ packs.

Step 2: Since he can't buy a fraction of a pack, he must buy 17 packs.

Step 3: Calculate the total cost: $17 \times £2.40$.

$$10 \times 2.40 = 24.00$$

$$7 \times 2.40 = 16.80$$

$$24.00 + 16.80 = £40.80$$

Answer: £40.80



Practice Perfect

1. $5 \times £0.75 = £3.75$. Change = $£10.00 - £3.75 = £6.25$

2. $6 \times £0.84 = £5.04$. Change = $£10.00 - £5.04 = £4.96$

3. $(£4.80) + (£2.20) + (£8.60) = £15.60$

4. $£5.00 \div £0.35 = 14.28\dots$ She can buy 14 bars. $14 \times £0.35 = £4.90$. Change = $£5.00 - £4.90 = £0.10$ (or 10p).

5. $4 \times £0.28 = £1.12$. Change = $£5.00 - £1.12 = £3.88$



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