Budget at Home – Money Problems **Answers**

1. Groceries

You buy the following items:

£0.89

£1.73

£1.17

£4.16
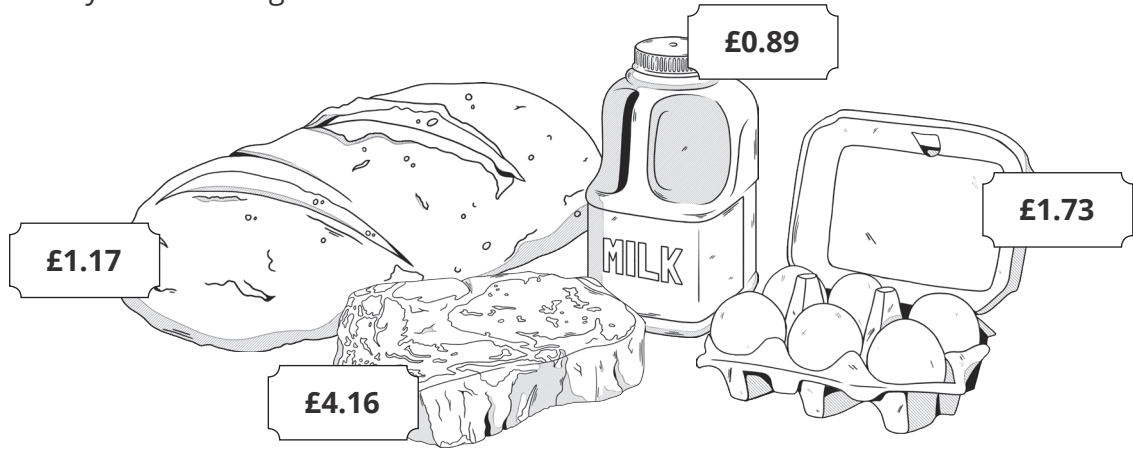
1. Show how much change you would get from:

   a. £20

   b. £10

2. How much more money would you need if you had £5?

Total shopping = 4.16 + 0.89 + 1.17 + 1.73 = **7.95**

1a. 20 – 7.95 = **12.05**

1b. 10 – 7.95 = **2.05**

2. 7.95 – 5 = **2.95**

BEYOND MATHS

2. Homeware

Show how many mugs you could buy and how much change you would get if you used these notes:

    a. £20   b. £10   c. £5

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a. $20 ÷ 0.48 = 41.67 =$ **41 mugs**

    check: $0.48 × 41 = £19.68$

    change: $20 – 19.68 =$ **£0.32**

b. $10 ÷ 0.48 = 20.83 =$ **20 mugs**

    check: $0.48 × 20 = £9.60$

    change: $10 – 9.60 =$ **£0.40**

c. $5 ÷ 0.48 = 10.42 =$ **10 mugs**

    check: $0.48 × 10 = £4.80$

    change: $5 – 4.80 =$ **£0.20**

3. Decorating

DIY Dave : Invoice

Item	Cost per item	Quantity	Total Cost
Tin of paint	£ 12.86	3	£ **38.58**
Skirting board	£ 7.04	4	£ 28.16
Interior door	£ 24.99	**3**	£ 74.97
Plug socket	£ **6.48**	3	£ 19.44
		TOTAL	£ **161.15**

Complete the invoice.

Dave charges £10.45 an hour for labour.

This job took him 13 hours.

What is the **new** total for the job, **including** material costs?

Labour cost = 13 × 10.45 = £135.85

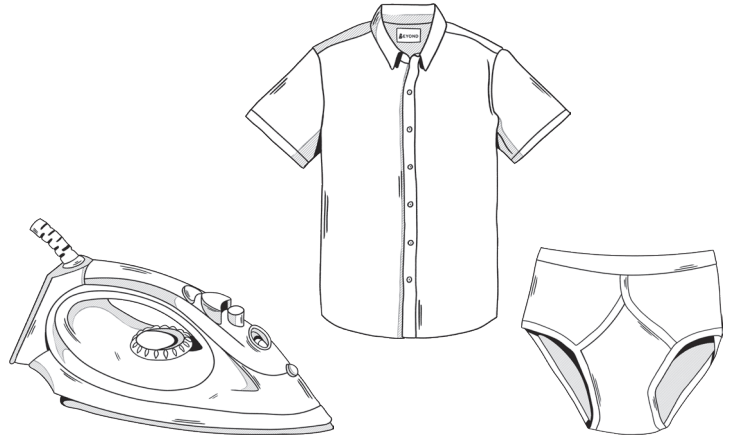New job total = 135.85 + 161.15 = **£297.00**

4. Ironing

Irene's Ironing

Service

£2.78 per shirt

85p per pair of pants

1. Show how much Irene will charge to iron:
   a. 5 shirts

   b. 13 shirts and 3 pairs of pants

   c. 27 pairs of pants and 10 shirts

2. If Irene received £13.60 just for ironing pants, how many pairs did she iron?

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1. a. 5 × 2.78 = **£13.90**

   b. 13 × 2.78 + 3 × 0.85 = **£38.69**

   c. 27 × 0.85 + 10 × 2.78 = **£50.75**

2. 13.60 ÷ 0.85 = **16**

5. Toiletries

Dupersrug★	
Shower gel	83p
Deodorant	£1.12
Handwash	79p
Soap	36p
Moisturiser	£1.90

Calculate the total cost and the change you would get from a £5 note if you bought:

1. Moisturiser and deodorant

2. Shower gel and soap

3. Handwash and two deodorants

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1. Moisturiser and deodorant

   1.90 + 1.12 = **£3.02**

   Change: 5 – 3.02 = **£1.98**

2. Shower gel and soap

   83 + 36 = 119p = **£1.19**

   Change: 5 – 1.19 = **£3.81**

3. Handwash and two deodorants

   0.79 + 2(1.12) = 0.79 + 2.24 = **£3.03**

   Change: 5 – 3.03 = **£1.97**