

Skill

Group A - Unitary method/Common multiples

Which offer is better value for money? Use either the unitary method or the common multiples method.

1) Offer A

6 mugs for £18

Offer B

3 mugs for £12

2) Offer A

8 pictures for £40

Offer B

6 pictures for £36

3) Offer A

6 games for £54

Offer B

4 games for £32

4) Offer A

3 pens for £7.50

Offer B

5 pens for £12

5) Offer A

4 books for £18

Offer B

3 books for £12.75

6) Offer A

3 drinks for £11.70

Offer B

7 drinks for £23.80

7) Offer A

5 bags for £26

Offer B

10 bags for £53

Offer C

20 bags for £102

8) Offer A

2 boxes for £1.60

Offer B

3 boxes for £2.55

Offer C

6 boxes for £4.92

9) Offer A

3 jumpers for £75

Offer B

4 jumpers for £104

Offer C

6 jumpers for £156

10) Offer A

300*ml* for £12

Offer B

600*ml* for £20

11) Offer A

9kg for £13.50

Offer B

3kg for £4.20

12) Offer A

500cm for £3

Offer B

2m for £7, 20



Group B - Exchange rates

Where is it cheaper to buy the items?

1) Exchange rate: £1 = \$1.30.

A jumper costs £20 in the UK. The same jumper costs \$25 in the USA.

3) Exchange rate: £1 = 150 yen.

A set of headphones costs £30 in the UK. The same headphones cost 4600 yen in Japan.

5) Exchange rate: £1 = \$1.35

A bag costs £40 in the UK. The same jumper costs \$70 in the USA.

7) Exchange rates:

£1 = \$1.30 and £1 =
$$1.20$$

A phone costs £300 in the UK. The same phone costs \$400 in the USA and €350 in France.

9) Exchange rates:

£1 =
$$$1.30$$
 and £1 = 99 rupees.

A rug costs £101 in the UK.

The same rug costs \$150 in the USA and 9990 rupees in India.

11) Exchange rates:

£1 = \$1.35 and \$1 =
$$0.90$$

A TV costs £600 in the UK. The same TV costs \$750 in the USA and €700 in Spain.

A pair of trainers costs £40 in the UK. The same pair of trainers costs €45 in France.

4) Exchange rate: £1 = £1.40.

A laptop costs £300 in the UK. The same laptop costs $\ensuremath{\notin} 410$ in Spain.

6) Exchange rate: £1 = 20.5 rand.

A coat costs £60 in the UK. The same coat costs 1200 rand in South Africa.

8) Exchange rates:

£1 =
$$\$1.25$$
 and £1 = $\$1.18$

A necklace costs £200 in the UK. The same necklace costs \$240 in the USA

and €220 in Spain.

£1 =
$$£1.20$$
 and $£1 = 1.15

An ornament costs £70 in the UK.
The same ornament costs €80in France and \$90 in the USA.

12) Exchange rates:

£1 =
$$$1.25$$
 and $$1 = 5.5$ Real.

A jumper costs £22 in the UK. The same jumper costs \$30 in the USA and 150 Real in Brazil.



Group C - Deals

Janet wants to buy some cola. What is the cost per litre using each deal?

1)
$$1l$$
 bottle = $60p$

2)
$$1l$$
 bottle = $60p$

3)
$$2l$$
 bottle = $80p$

4)
$$800ml$$
 bottle = $40p$

5)
$$1l$$
 bottle = $50p$

7)
$$800ml$$
 bottle = $50p$

20% off total price

8)
$$300ml$$
 bottle = $20p$

10% off total price

9)
$$1l$$
 bottle = $40p$

10% extra free

10)
$$2l$$
 bottle = $95p$

10% extra free

11)
$$500ml$$
 bottle = $30p$

25% extra free

12)
$$600ml$$
 bottle = $40p$

15% extra free



Applied

1) (a) Josie needs to buy toilet rolls and kitchen rolls.

Buy for less are selling a bundle which includes 12 toilet rolls and 4 kitchen rolls for £6. 80.

They are also selling toilet rolls in packs of 4 for £1.80 and kitchen rolls in packs of 2 for 90p.

Is it better to buy the bundle or individual packs?

- (b) Josie needs 20 toilet rolls and 8 kitchen rolls. What is the least she could pay?
- 2) Mary has £12 to spend on chocolate bars. She can go to two different shops.

Chocoholics	Sweet Sensations
£5 per bar	£3 per bar
Buy one get one free	3 for 2

In which shop will Mary be able to buy the most chocolate bars?

3) A carton of juice usually contains 500ml. Here are two options for special offers:

Offer 1	Offer 2
20% off usual price	20% extra juice
Same amount of juice	Price remains the same

Which is a better offer for the customer?

The M6 toll road in England is 27mi in length. It costs £7 for a car to travel along this road.

The A23 toll road in France is 98km. It costs ≤ 22.10 for a car to travel along this road.



Best Buys - Exam Questions

1)	Washing powder is sold in 3 different sizes of container. A $3kg$ container costs £5. 40 A $5kg$ container costs £8 A $7kg$ container costs £13. 30			
	Which size of container is the best You must show how you got your			
			(3 marks)	
2)	Sarah is buying shampoo. She ne wants to buy the shampoo that is	eeds to choose between two brands and better value for money.		
	Silky Smooth 400ml £3.60	Crisp and Clean 300ml £3		
	Which shampoo is better value for	or money?		
			(2)	
	2	USA for \$4.50 per bottle. Given that s Silky Smooth better value for money?		
			(2) (4 marks)	



Best Buys - Exam Questions

A multipack of crisps usually contains 12 packets of crisps and is sold for £3. The crisp manufacturers consider two different offers:

Offer 1:	Offer 2:
50% extra free	Buy one multipack, get the second half price

Which of these offers is better value? Show how you decide.

	(5	ma	ark	(s)



	Question		Answer
	Skill Questi	ons	
Group A	Work out: 1) Offer A Offer B	6 mugs for £18 5 mugs for £17.50	1) A
	2) Offer A Offer B	8 pictures for £40 6 pictures for £36	2) A
	3) Offer A Offer B	6 games for £54 4 games for £32	3) B
	4) Offer A Offer B	3 pens for £7.50 5 pens for £12	4) B
	5) Offer A Offer B	4 books for £18 3 books for £12.75	5) B
	6) Offer A Offer B	3 drinks for £11.70 7 drinks for £23.80	6) B
	7) Offer A Offer B Offer C	5 bags for £26 10 bags for £53 20 bags for £102	7) C
	8) Offer A Offer B Offer C	2 boxes for £1.60 3 boxes for £2.55 6 boxes for £4.92	8) A
	9) Offer A Offer B Offer C	3 jumpers for £75 4 jumpers for £104 6 jumpers for £156	9) A
	10) Offer A Offer B	300 <i>ml</i> for £12 600 <i>ml</i> for £20	10) B
	11) Offer A Offer B	9kg for £13.50 3kg for £4.20	11) B
	12) Offer A Offer B	500 <i>cm</i> for £3 2 <i>metres</i> for £7. 20	12) A



Group B	Where is it cheaper to buy the items?	
	1) The exchange rate is £1 = \$1.30.	1) UK: \$26
		Cheaper in the USA
	A jumper costs £20 in the UK.	
	The same jumper costs \$25 in the USA.	
	2) The exchange rate is £1 = £1.20.	2) UK: €48 Cheaper in France
	A pair of trainers costs £40 in the UK. The same	
	pair of trainers costs €45 in France.	
	3) The exchange rate is £1 = 150 yen.	3) UK: 4500 yen Cheaper in the UK
	A set of headphones costs £30 in the UK.	
	The same headphones cost 4600 yen in Japan.	
	4) The exchange rate is £1 = £1.40.	4) UK: €420
	A laptop costs £300 in the UK.	Cheaper in Spain
	The same laptop costs €410 in Spain.	
	5) The exchange rate is £1 = \$1.35.	5) UK: \$54
	A bag costs £40 in the UK.	Cheaper in the UK
	The same jumper costs \$70 in the USA.	
	6) The exchange rate is £1 = 20.5 rand.	6) UK: 1230 Rand
	A coat costs £60 in the UK.	Cheaper in South
	The same coat costs 1200 rand in South Africa	Africa
	7) The exchange rates are £1 = \$1.30 and £1 = 1.20 .	7) USA: £307. 69 France: £291. 67
	A phone costs £300 in the UK.	Cheapest in France
	The same phone costs \$400 in the USA and €350	
	in France.	



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Group B	8) The exchange rates are £1 = \$1.25 and £1 = 1.18 .	8) USA: £192 Spain: £186. 44 Cheapest in Spain
	A necklace costs £200 in the UK.	
	The same necklace costs \$240 in the USA and	
	€220 n Spain.	
	9) The exchange rates are £1 = $$1.30$ and	9) USA: £115. 38
	£1 = 99 rupees.	India: £100. 91 Cheapest in India
	A rug costs £101 in the UK.	
	The same rug costs \$150 in the USA and 9990 rupees in India.	
	10) The exchange rates are £1 = $£1.20$ and $£1 = 1.15 .	10) UK: €84 USA: €78. 26 Cheapest in the USA
	An ornament costs £70 in the UK.	
	The same ornament costs €80 in France and \$90 in the USA.	
	11) The exchange rates are £1 = \$1.35 and $\$1 = \0.90 .	11) UK: \$810 Spain: \$777. 78 Cheaper in the USA
	A TV costs £600 in the UK.	
	The same TV costs \$750 in the USA and €700 in Spain.	
	12) The exchange rates are £1 = \$1.25 and $$1 = 5.5$ Real.	12) UK: \$27.50 Brazil: \$27.27 Cheapest in Brazil
	A jumper costs £22 in the UK.	
	The same jumper costs \$30 in the USA and 150 Real in Brazil.	



Group C	Janet wants to buy some cola. What is the cost per litre using each deal?	
	1) 1 <i>l</i> bottle = $60p$. Buy 1 get 1 free	1) 30 <i>p</i>
	2) $1l$ bottle = $60p$. Buy 2 get the 3^{rd} free	2) 40 <i>p</i>
	3) $2l$ bottle = $80p$. Buy 4 get the 5^{th} free	3) 32 <i>p</i>
	4) $800ml$ bottle = $40p$. Buy 2 get the 3^{rd} free	4) 33. 33 <i>p</i>
	5) $1l$ bottle = $50p$. 20% off total price	5) 40 <i>p</i>
	6) $2l$ bottle = £1. 25% off total price	6) 37. 5 <i>p</i>
	7) $800ml$ bottle = $50p$. 20% off total price	7) 50 <i>p</i>
	8) $300m$ l bottle = $20p$. 10% off total price	8) 60 <i>p</i>
	9) 1 <i>l</i> bottle = $40p$. 10% extra free	9) 36. 36 <i>p</i>
	10) $2l$ bottle = $95p$. 10% extra free	10) 43. 18 <i>p</i>
	11) $500ml$ bottle = $30p$. 25% extra free	11) 48p
	12) 600 <i>ml</i> bottle = 40 <i>p</i> . 15% extra free	12) 57. 97 <i>p</i>



	Q	uestion		Α	nswer
	Αŗ	Applied Questions			
1)	a)	Josie needs to buy toilet rolls and kitchen rolls. Buy for less are selling a bundle which includes 12 toilet rolls and 4 kitchen rolls for £6.80. They are also selling toilet rolls in packs of 4 for £1.80 and kitchen rolls in packs of 2 for 90p. Is it better to buy the bundle or individual packs?		a)	Bundle
	b)			b)	1 bundle = £6.80 2 packs toilet roll = £3.60 2 packs kitchen roll = £1.80 Total = £12.20
2)		Mary has £12 to spend can go to two different sections can go to two different sections £5 per bar Buy one get one free In which shop will Mary chocolate bars?			Sweet sensations
3)		A carton of juice usually contains 500ml. Here are two options for special offers:			Offer 1: 20% off the price
		Offer 1 20% off usual price Same amount of juice Which is a better offer f how you decide.	Offer 2 20% extra juice Price remains the same for the customer? Show		Price decreased by 20% = 500ml 80% price = 500ml 16% price = 100ml \div 5 Original price = 500ml + 20% Original price = 600ml $1/6$ price = 600ml $1/6$ price = 600ml $1/6$ price = 100ml
4)		It costs £7 for a car to tra The A23 toll road in Fran €22. 10 for a car to trave	nce is 98km. It costs		M6 in England: £0. 259 / mile A23 in France: £0. 301 / mile So M6 toll in England is better value



Best Buys - Mark Scheme

	Question	Answer	
	Exam Questions		
1)	Washing powder is sold in 3 different sizes of container.	3kg container: $1kg = £1.805kg$ container: $1kg = £1.607kg$ container: $1kg = £1.90$	
	A 3kg container costs £5. 40 A 5kg container costs £8 A 7kg container costs £13. 30	Calculates the value of two containers with a comparable unit.	(1)
	Which size of container is the best value for money?	Calculates the value of all three containers with comparable units.	(1)
	You must show how you got your answer.	5kg container is better value for money.	(1)
2) a) Sarah is buying shampoo. She needs to choose between two brands and wants to		Silky smooth: $100ml = £0.90$	
	buy the shampoo that is better value for money.	Crisp and clean: $100ml = £1$	(1)
	Silky Smooth Crisp and Clean 400ml 300ml £3.60	Silky Smooth better value	(1)
	Which shampoo is better value for money?		
	Silky Smooth is available in the USA for \$4.50 per bottle. Given that	£3.60 × 1.35 = \$4.86	(1)
	£1 = \$1.35, in which country is Silky Smooth better value for money?	or $4.50 \div 1.35 = £3.33$	(1)
	Zarasom ottor varas for money.	Better value in the USA	(1)



Best Buys - Mark Scheme

3)	A multipack of crisps usually contains 12 packets of crisps and is sold for £3.		Offer 1: 18 packs for £3 1 pack = 16. 67p	(1) (1)	
	The crisp manufact different offers:	urers consider two	Offer 2: 24 packs for £4. 50 1 pack = 18. 75p	(1) (1)	
			Offer 1 is better	(1)	
	Offer 1:	Offer 2:			
	50% extra free	Buy one multipack, get the second half price			
	Which of these offer Show how you deci				

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