Exchange Rates and Best Buys

GCSE Mathematics • **Foundation Tier** • Grades 3–4 • Non-calculator

WORKED SOLUTIONS

Name: worked example Class: _____ Total: 59 / 59

Show all your working. Marks are given for correct method as well as the final answer.

1. $1 = $1.25. Change $80 into dollars. **[2 marks]**

80 × 1.25
= 100

Answer: $100

2. $1 = $1.25. Change $250 into pounds. **[2 marks]**

going BACK, so divide
250 ÷ 1.25 = 200
pounds to dollars multiply; dollars to pounds divide

Answer: £200

3. $1 = 1.16 euros. Change $350 into euros. **[2 marks]**

350 × 1.16
= 406

Answer: 406 euros

4. $1 = 1.16 euros. Change 522 euros into pounds. **[2 marks]**

522 ÷ 1.16
= 450

Answer: £450

5. $1 = 185 yen. Change $42 into yen. **[2 marks]**

42 × 185
= 7770

Answer: 7770 yen

6. $1 = 185 yen. Change 9250 yen into pounds. **[2 marks]**

9250 ÷ 185
= 50

Answer: £50

7. $1 = $1.20 and $1 = 1.15 euros. Change $600 into euros. **[3 marks]**

dollars to pounds first: 600 ÷ 1.20 = £500
go through pounds, never straight across
500 × 1.15 = 575

Answer: 575 euros

8. $1 = $1.28. A jacket costs $96 in New York and $78 in London. Work out which is cheaper. **[3 marks]**

96 ÷ 1.28 = £75
£75 < £78
so New York

Answer: New York

9. A bureau charges 2% commission then uses $1 = 1.20 euros. Work out how many euros you get for $500. **[3 marks]**

commission: 2% of 500 = £10
£490 is actually converted
490 × 1.20 = 588

Answer: 588 euros

10. $1 = $1.30. Petrol costs $4.55 per gallon. Work out the cost in pounds per gallon. **[2 marks]**

4.55 ÷ 1.30
= 3.50

Answer: £3.50

11. A 500 g box costs $2.40. A 750 g box costs $3.45. Work out which is better value. **[3 marks]**

cost per 100 g
500 g: 240 ÷ 5 = 48p
750 g: 345 ÷ 7.5 = 46p
750 g is cheaper per 100 g

Answer: the 750 g box

12. 6 cans cost $3.60. 10 cans cost $5.80. Work out which is better value. **[3 marks]**

6 pack: 360 ÷ 6 = 60p each
10 pack: 580 ÷ 10 = 58p each

Answer: the 10-can pack

13. 2 litres of juice costs $1.80. Work out the cost of 5 litres at the same rate. **[2 marks]**

1 litre = 1.80 ÷ 2 = £0.90
5 × 0.90 = 4.50

Answer: £4.50

14. 8 pens cost $5.60. Work out the cost of 14 pens. **[3 marks]**

one pen: 5.60 ÷ 8 = £0.70
14 × 0.70 = 9.80

Answer: £9.80

15. Shop A sells 4 for $5. Shop B sells 7 for $8.40. Work out which is cheaper per item and by how much. **[4 marks]**

A: 500 ÷ 4 = 125p
B: 840 ÷ 7 = 120p
B is 5p cheaper each

Answer: B, by 5p

16. A 3 for 2 offer applies to items costing $4.50 each. Work out the cost of 6 items. **[3 marks]**

6 items = two lots of 3
each lot costs 2 × 4.50 = £9
2 × 9 = 18

Answer: £18

17. A shop takes 25% off a $64 coat. Work out the sale price in euros at $1 = 1.15 euros. **[3 marks]**

25% off: $64 \times 0.75 = £48$
$48 \times 1.15 = 55.20$

Answer: 55.20 euros

18. $1 = $1.24 on Monday and $1 = $1.30 on Friday.

(a) Work out the dollars from $400 on each day. **[3 marks]**

Monday: $400 \times 1.24 = \$496$

Friday: $400 \times 1.30 = \$520$

(b) Work out how many more dollars you get on Friday. **[2 marks]**

$520 - 496$
$= \$24$ more

Answer: $496 and $520 ; $24 more

19. Coffee is sold in a 200 g jar at $3.80 and a 350 g jar at $6.30.

(a) Work out the cost per 100 g for each jar. **[3 marks]**

200 g: $380 \div 2 = 190p$
350 g: $630 \div 3.5 = 180p$

(b) Write down which is better value and explain. **[2 marks]**

the 350 g jar
$180p < 190p$ for the same amount

Answer: 190p and 180p ; the 350 g jar

20. A holiday costs 1 380 euros. The rate is $1 = 1.15 euros and the bureau charges $6 commission.

(a) Work out the cost in pounds before commission. **[3 marks]**

$1380 \div 1.15$
$= £1200$

(b) Work out the total paid, including commission. **[2 marks]**

$1200 + 6$
$= £1206$

Answer: £1200 ; £1206

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