VALUE FOR MONEY – PRACTICE QUESTIONS

1.
Shop A sells eggs in packs of 6 for £2.40.
Shop B sells eggs in packs of 8 for £4.00.

Which shop gives best value for money?

A = 2.40 ÷ 6 = £0.40 per egg
B = 4.00 ÷ 8 = £0.50 per egg

Shop A gives best value for money.

2.
A shop sells crisps in three different sized multipacks.
The first multipack contains 6 bags of crisps and costs £1.80.
The second multipack contains 15 bags of crisps and costs £4.50.
The third multipack contains 24 bags of crisps and costs £6.00.

Which multipack gives best value for money?

Multipack 1 = 1.80 ÷ 6 = £0.30 per bag
Multipack 2 = 4.50 ÷ 15 = £0.30 per bag
Multipack 3 = 6.00 ÷ 24 = £0.25 per bag

Multipack 3 gives best value for money.

3.
A supermarket sells rice in three different sized packets – small, medium and large.
The small packets contain 100g of rice and cost £1.20.
The medium packets contain 250g of rice and cost £2.50.
The large packets contain 1kg of rice and cost £5.00.

Which sized packet gives best value for money?

Small = 1.20 ÷ 100 = £0.012 per gram
Medium = 2.50 ÷ 250 = £0.01 per gram
Large = 5.00 ÷ 1000 = £0.005 per gram.

The large packet gives best value for money.

4.
Lemonade is sold in cans and bottles.
The cans contain 550ml of lemonade and cost 80p.
The bottles contain one and a half litres of lemonade and cost £3.50.

Which gives best value for money – cans or bottles?

Cans = 0.80 ÷ 550 = 0.00145 per ml

Bottles = 3.50 ÷ 1500 = 0.0023 per ml

Cans give the best value for money.

5.
A shop sells string in three different lengths.
It sells 150cm of string for £1.50, 5 metres of string for £3.50 and 10 metres of string for £8.50.

Which length of string provides best value for money?

150cm = 1.50 ÷ 150 = 0.01 per cm

5m = 3.50 ÷ 500 = 0.007 per cm

10m = 8.50 ÷ 1000 = 0.0085 per cm.

10 metres provide best value for money.

6.
A shop sells bottles of water in different quantities.
One bottle of water costs 79p.
A pack of 4 bottles of water costs £3.10.
A pack of 12 bottles of water costs £9.50.

Which sized pack provides best value for money?

One bottle = 0.79 ÷ 1 = 0.79 per bottle.

4 pack = 3.10 ÷ 4 = 0.775 per bottle.

12 pack = 9.50 ÷ 12 = 0.7916 per bottle.

The pack of 4 gives best value for money.

7.
A shop sells macaroni in three different sized packs.
Pack 1 contains 600g of macaroni and costs £1.40.
Pack 2 contains 1.5kg of macaroni and costs £4.20.
Pack 3 contains 2.5kg of macaroni and costs £6.

Which pack provides best value for money?

Pack 1 = 1.40 ÷ 600 = 0.00233 per gram
Pack 2 = 4.20 ÷ 1500 = 0.0028 per gram
Pack 3 = 6.00 ÷ 2500 = 0.0024 per gram

Pack 1 provides best value for money.

8.
A garden centre sells tomato seeds in three different sized packs.
Pack 1 contains 25 seeds and costs £1.19.
Pack 2 contains 60 seeds and costs £2.99.
Pack 3 contains 100 seeds and costs £4.99.

Which pack provides best value for money?

Pack 1 = 1.19 ÷ 25 = 0.0476 per seed
Pack 2 = 2.99 ÷ 60 = 0.04983 per seed
Pack 3 = 4.99 ÷ 100 = 0.0499 per seed

Pack 1 provides best value for money.

9.
Shop A sells dog food in a pack of six 350g tins for £3.75.
Shop B sells dog food in a pack of eight 275g tins for £4.

Which shop provides best value for money?

Shop A: 350 × 6 = 2100
3.75 ÷ 2100 = 0.00178... per gram

Shop B: 275 × 8 = 2200
4.00 ÷ 2200 = 0.0018 per gram.

Shop A provides best value for money.

10.
Brand A sells custard in packs of eight 120g pots for £3.59.
Brand B sells custard in packs of ten 100g pots for £4.49.
Brand C sells custard in 750g cartons for £2.79 each.

Which brand provides best value for money?

A: $8 \times 120 = 960$, $3.59 \div 960 = 0.003739583$ per gram
B: $10 \times 100 = 1000$, $4.49 \div 1000 = 0.00449$ per gram
C: $2.79 \div 750 =$ 0.00372 per gram

Brand C provides best value for money.

11.
Brand A sells cat food in a box of twelve 100g sachets for £4.75.
Brand B sells cat food in a pack of six 325g tins for £7.75.
Brand C sells cat food in a pack of eight 300g tins for £8.75.

Which brand provides best value for money?

A: $12 \times 100 = 1200$, $4.75 \div 1200 = 0.0039583$ per gram
B: $6 \times 325 = 1950$, $7.75 \div 1950 = 0.003974358$ per gram
C: $8 \times 300 = 2400$, $8.75 \div 2400 = 0.00364583$ per gram

Brand C provides best value for money.

12.
A shop sells cotton rolls in two different sizes.
Roll 1 is 80 centimetres wide, 8 metres long and costs £12.50.
Roll 2 is 90 centimetres wide, 9 metres long and costs £15.50.

Which roll provides best value for money?

Roll 1: Area $= 80 \times 800 = 64000\ cm^2$
$12.50 \div 64000 = 0.000195325$ per cm^2

Roll 2: Area $= 90 \times 900 = 81000\ cm^2$
$15.50 \div 81000 = 0.000191358024$ per cm^2

Roll 2 provides best value for money.