

Q1

1

Divide cost of each tray by the number of plants to find cost per plant.

$$\text{small: } 6.50 \div 30 = \text{£}0.216666\dots \text{ per plant}$$

$$\text{medium: } 8.95 \div 40 = \text{£}0.22375 \text{ per plant}$$

$$\text{large: } 10.99 \div 50 = \text{£}0.2198 \text{ per plant}$$

[3]

1 mark for dividing to find one price per plant. 1 mark for dividing to find all three prices per plant. 1 mark for all three answers correct.

Interpret your results in the context of the question.

Kaz should buy the small tray, because it has the lowest price per plant. [1]

Q2

2

Divide cost of each size box by the number of sachets to find cost per sachet.

$$\text{small: } 5.65 \div 12 = \text{£}0.470833\dots \text{ per sachet}$$

$$\text{medium: } 9.20 \div 20 = \text{£}0.46 \text{ per sachet}$$

$$\text{large: } 15.75 \div 35 = \text{£}0.45 \text{ per sachet}$$

[3]

1 mark for dividing to find one price per sachet. 1 mark for dividing to find all three prices per sachet. 1 mark for all three answers correct.

Interpret your results in the context of the question.

The large box gives the best value, because it has the lowest price per sachet. [1]

Q3-4

Divide cost of each size tube by the volume to find cost per ml.

$$50 \text{ ml: } 1.09 \div 50 = \text{£}0.0218 \text{ per ml}$$

$$75 \text{ ml: } 1.68 \div 75 = \text{£}0.0224 \text{ per ml}$$

$$125 \text{ ml: } 15.75 \div 35 = \text{£}0.02152 \text{ per ml}$$

[3]

1 mark for dividing to find one price per ml. 1 mark for dividing to find all three prices per ml. 1 mark for all three answers correct.

Interpret your results in the context of the question.

The 125 ml tube gives the best value, because it has the lowest price per millilitre. [1]

4

Divide cost of each pack by the number of bags of crisps to find cost per bag.

$$\text{small: } 4 \div 18 = \text{£}0.222222\dots \text{ per bag}$$

$$\text{medium: } 4.99 \div 20 = \text{£}0.2495 \text{ per bag}$$

$$\text{large: } 6 \div 26 = \text{£}0.230769\dots \text{ per bag}$$

[3]

1 mark for dividing to find one price per bag. 1 mark for dividing to find all three prices per bag. 1 mark for all three answers correct.

Interpret your results in the context of the question.

The small pack with 18 bags is the best value, because it has the lowest price per bag of crisps. [1]

Q5

5

Divide cost of each carton by the number of grams of crisps to find cost per gram.

small: $1.60 \div 125 = \text{£}0.0128$ per gram

large: $2.80 \div 225 = \text{£}0.012444\dots$ per gram

[2]

1 mark for dividing to find one price per gram. 1 mark for dividing to find the other price per gram.

Interpret your results in the context of the question.

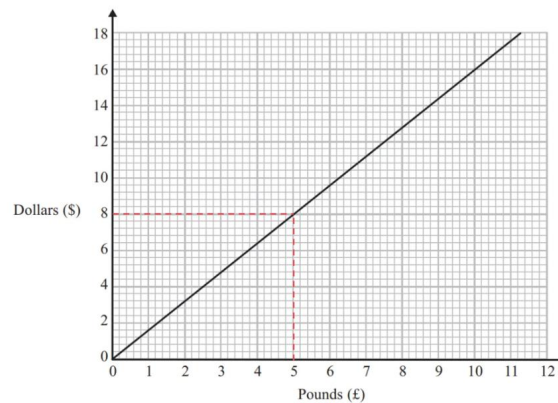
The large carton is the best value, because it has the lowest price per gram of blueberries. [1]

You could also get full marks by dividing 'the other way round' to find the number of grams per pound for each carton.
 I.e., small = $125 \div 1.60 = 78.125$ g per £, and large = $225 \div 2.80 = 80.357\dots$ g per £.
 So large is the best value because you get the most grams per pound.

Q6

6a

Draw a line up from £5 on the horizontal axis until it hits the line. Then draw a line across and read off the vertical \$ axis



\$8 [1]

6b

Work out how much money is left to pay

$\$600 - \$200 = \$400$

[1]

Ella needs to pay \$400 in pounds

The Dollars axis does not go up to \$400 but $\$400 = \4×100 , so convert \$4 to pounds and then multiply by 100 (we could also convert \$8 and multiply by 50, or convert \$10 and multiply by 40)

$\$4 = \text{£}2.50$

Multiply by 100

$\text{£}2.50 \times 100 = \text{£}250$

[1]

Subtract this amount from the £800 that Ella has

Amount Ella has left = $\text{£}800 - \text{£}250$

[1]

Amount Ella has left = £550 [1]

Q7-9

7

Multiply \$0.0099 by 40 000.

$$40\,000 \times 0.0099$$

\$396 [1]

8

Divide the number of rupees by 68.14 to convert it into dollars.

$$30000 \div 68.14$$

$$440.270032\dots$$

[1]

\$ 440 [1]

Answers between 440.2 and 440.3 will be accepted.

9

Divide the number of Namibian dollars by the number of \$.

$$3891 \div 300 = 12.97$$

\$1 = 12.97 Namibian dollars [1]**Q10-11**

10

€1 is worth \$1.125. Note that the number in Euros is less than the number in dollars

If you're not sure whether to multiply or divide \$306 by 1.125, remember that the resulting number in dollars should be less than the 306 Euros!

Another way to think about this is that if we want to go from Euros to dollars, we multiply by 1.125. But here we want to go from dollars to Euros, so we divide by 1.125

$$306 \div 1.125$$

[1]

€272 [1]

11

Work out the total cost of the apples

$$5 \times \$2.69 = \$13.45$$

[1]

Subtract this from the total spend

$$\$17.56 - \$13.45 = \$4.11$$

Divide the resulting amount by 3 to find the cost per kilograms of bananas

$$\$4.11 \div 3$$

[1]

\$ 1.37 [1]