**Word problems revision 2020**

**Q1.**

Olivia buys three packets of nuts.

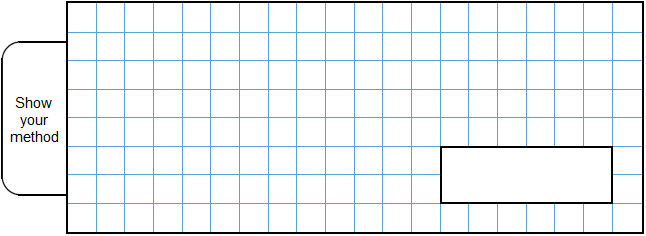


She pays with a **£2 coin**.

This is her change.



What is the cost of **one** packet of nuts?



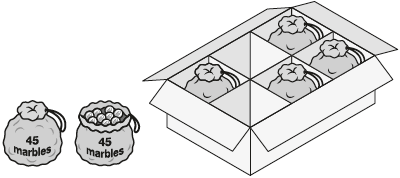
2 marks

**Q2.**

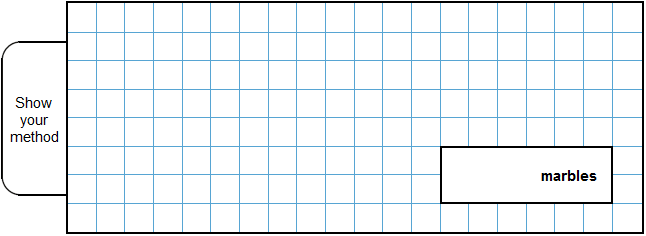
A toy shop orders 11 boxes of marbles.

Each box contains 6 bags of marbles.

Each bag contains 45 marbles.



How many **marbles** does the shop order in total?



2 marks

**Q3.**

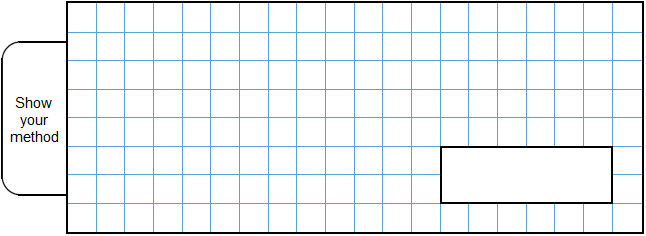
Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

What was the number she started with?



2 marks

**Q4.**

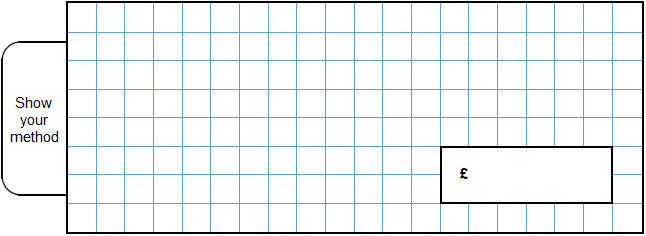
Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

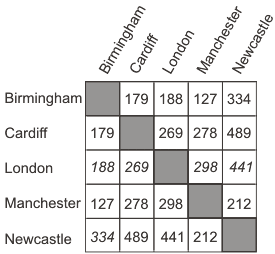
How much does each child pay?



2 marks

**Q5.**

This table shows the distances in **kilometres** between five towns.



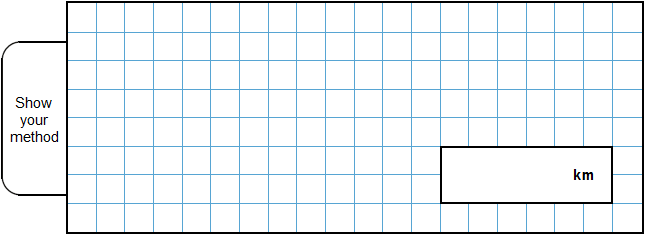
Use the table to find the distance from **London** to **Manchester.**

****

1 mark

James goes from **Newcastle** to **Birmingham,** and then on to **Cardiff.**

How many **kilometres** does he travel?



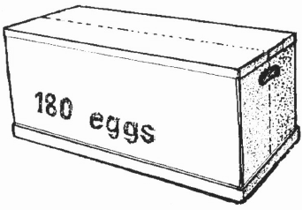
2 marks

**Q6.**

Eggs are put in **trays of 12**

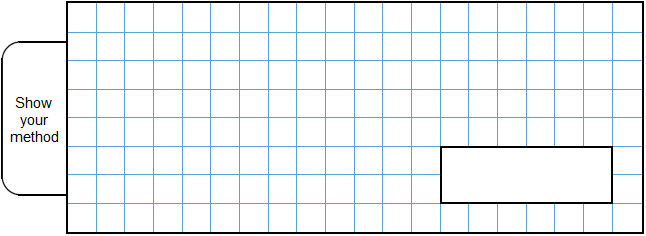


The trays are packed in boxes.



Each **box** contains **180 eggs**.

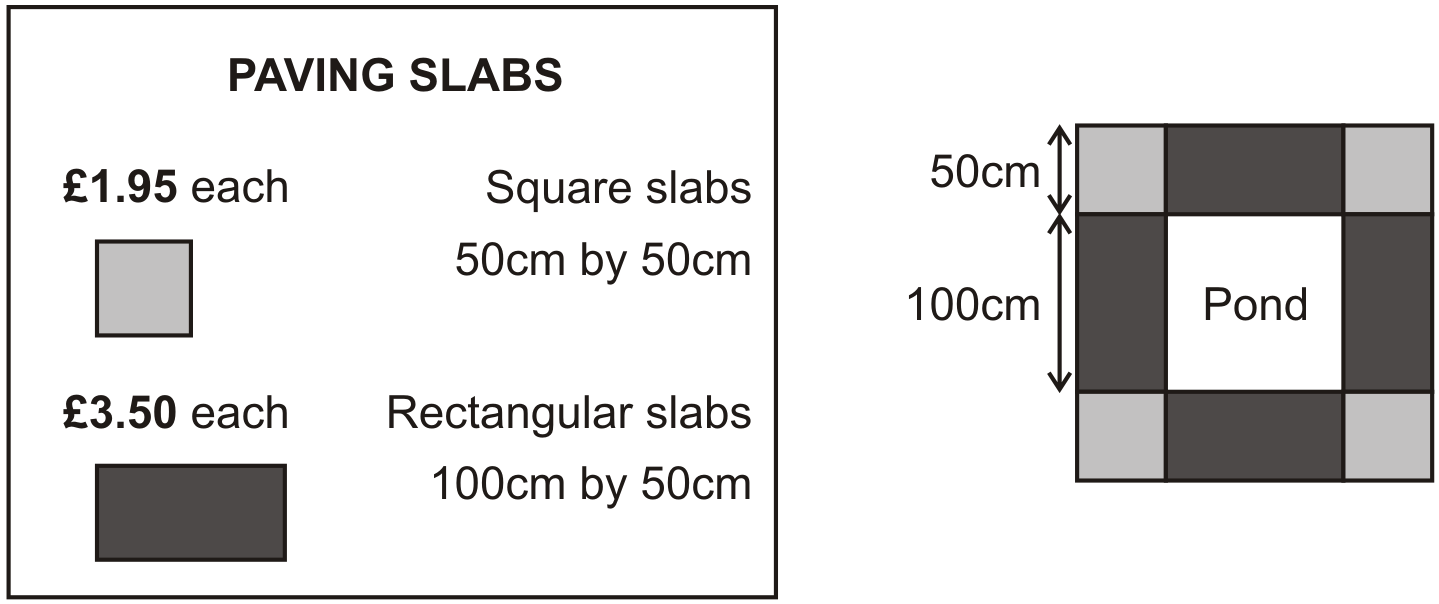
How many **trays** are in each **box**?



2 mark

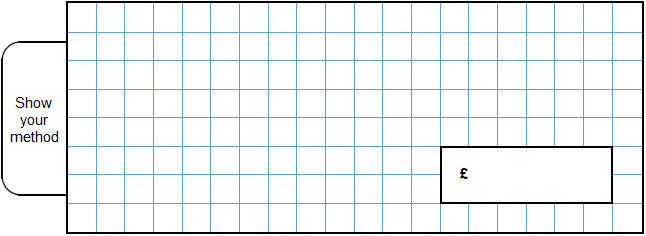
**Q7.**

Mr Singh buys paving slabs to go around his pond.



He buys 4 rectangular slabs and 4 square slabs.

What is the total cost of the slabs he buys?

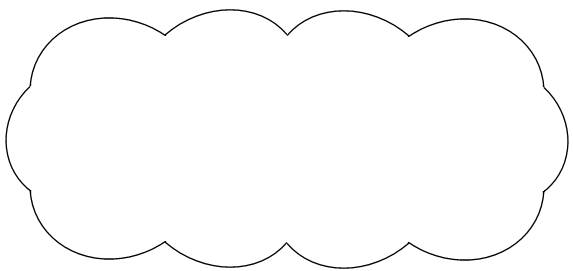


2 marks

Mr Singh says,

'It would cost more to use square slabs all the way round'.

Explain why he is correct.



1 mark

**Q8.**

A shop sells food for birds.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | | |
|  | £3.79 for a bag | £1.35 for a bag | £8.95 each |

Lara has £10 to spend on peanuts.

How many bags of peanuts can she get for £10?

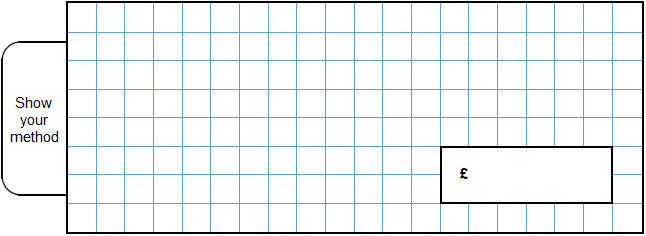


1 mark

Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.

How much **more** money does he need?

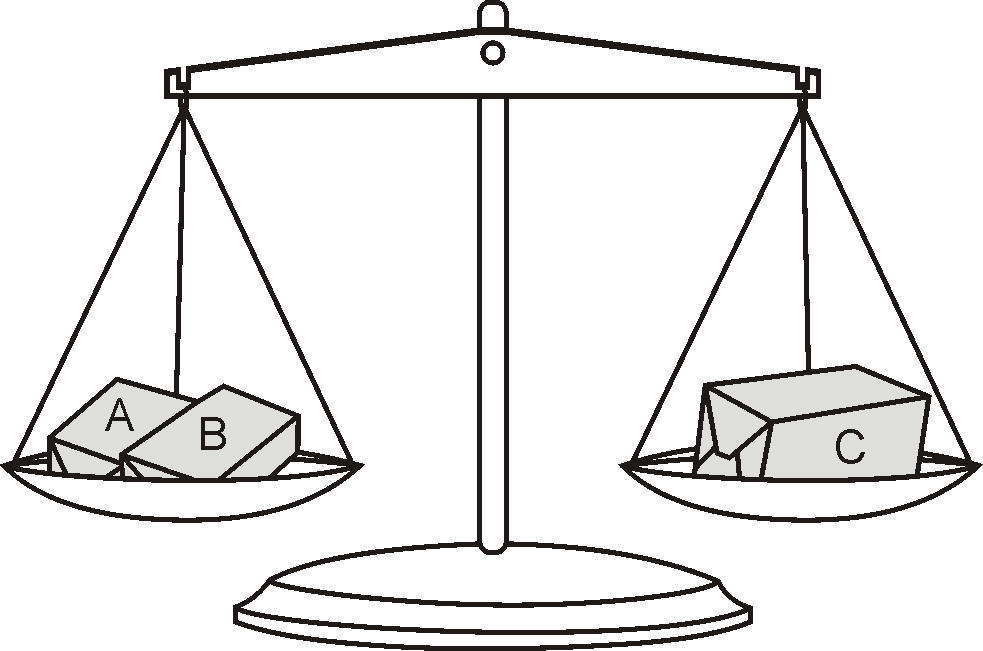


2 marks

**Q9.**

Amir has three parcels.

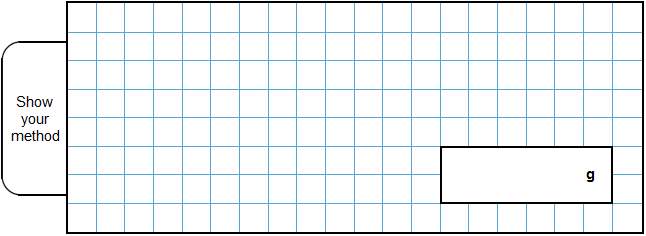
Parcels A and B together weigh the same as parcel C.



The three parcels weigh 800 grams altogether.

Parcel A weighs 250g.

How much does parcel B weigh?



2 marks

**Q10.**

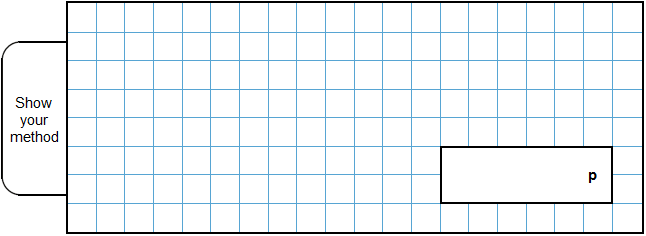
An iced cake costs 10p more than a plain cake.

Sarah bought two of each cake.



They cost £1 altogether.

What is the cost of an **iced** cake?



2 marks

**Q11.**

A shop sells jars of honey and honey dippers.

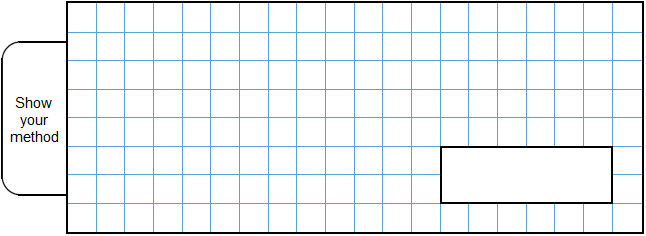
        

Chen bought **three** jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?



2 marks

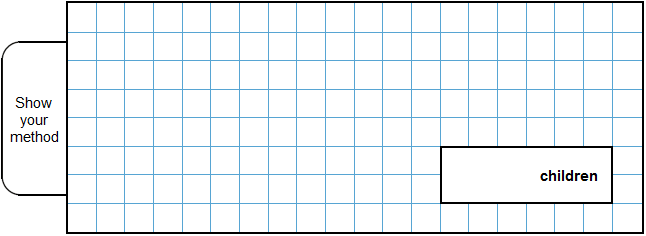
**Q12.**

200 children went on holiday.

10% of the children went to Wales.

25% of the children went to Scotland.

How many **more** children went to Scotland than went to Wales?



2 marks

**Q13.**

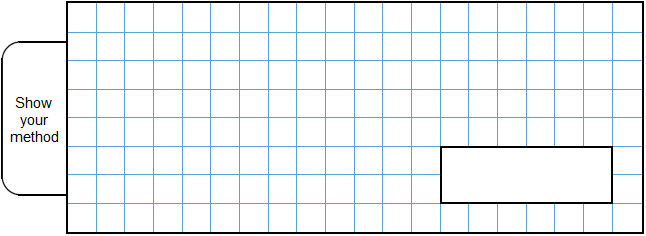
Lara chooses a number less than 100

She divides it by 3 and then subtracts 11

She then divides this result by 2

Her answer is 10.5

What was the number she started with?



2 marks

**M1.**

Award **TWO** marks for the correct answer of 35p **OR** £0.35.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

•        50p + 20p + 10p + 10p + 5p = 95p

£2.00 − 95p = £1.05

£1.05 ÷ 3

*Accept for* ***ONE*** *mark an answer of £35* ***OR*** *£35p* ***OR*** *0.35p as evidence of an appropriate method.*

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2m**

**[2]**

**M2.**

Award **TWO** marks for the correct answer of 2,970.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method with no more than one arithmetic error, e.g.

•        11 × 6 = 66

66 × 45

***Do not*** *accept sight of a correct multiplication only,  
e.g. 11 × 6 × 45, for* ***ONE*** *mark.*

*Misreads are* ***not*** *allowed.*

**Up to 2m**

**[2]**

**M3.**

Award **TWO** marks for the correct answer of 15.

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

•        4.5 × 3 = 13.5

13.5 – 6 = 7.5

7.5 × 2

*Answer need not be obtained for the award of* ***ONE*** *mark.*

*Misreads are* ***not*** *allowed.*

**Up to 2m**

**[2]**

**M4.**Award **TWO** marks for the correct answer of £5.75

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

•        £6.75 × 3 = £20.25  
£20.25 + £8.50 = £28.75  
£28.75 ÷ 5

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2**

**[2]**

**M5.**          (a)     298

**1**

(b)     Award **TWO** marks for the correct answer of 513

          If the answer is incorrect, award **ONE** mark for evidence of an  
appropriate strategy, eg:

•    334 + 179 **OR** 179 + 334

*Both the numbers must be correct.*

**Up to 2**

**[3]**

**M6.**          Award **TWO** marks for a correct answer of 15

          If the answer is incorrect, award **ONE** mark for evidence of appropriate  
working, eg

180 ÷ 12 = wrong answer

*Calculation must be performed for the award of* ***ONE*** *mark.*

**Up to 2**

**[2]**

**M7.**          (a)     Award **TWO** marks for the correct answer of £21.80

*Accept £21.80p* ***OR*** *£21 80*

          If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg

3.50 × 4 = 14.00

1.95 × 4 = 7.80

14.00 + 7.80 = wrong answer

*Accept for* ***ONE*** *mark £2180p* ***OR*** *£2180* ***OR*** *£21.8 as evidence of appropriate working.*

*Calculation must be performed for the award of* ***ONE*** *mark.*

**Up to 2**

(b)     An explanation which recognises that each square slab costs more than half  
a rectangular slab or equivalent, eg

•    ‘Half of £3.50 is £1.75, which is less than £1.95’;

•    ‘Two square slabs cost more than one rectangular slab’;

•    ‘Because 12 squares cost £23.40’;

•    ‘Because it would cost £1.60 more’.

***Do******not*** *accept vague or arbitrary explanations, eg*

*•    ‘Because he would need more slabs’;*

*•    ‘Because square slabs are cheaper than rectangular slabs’;*

*•    ‘Because it costs more’;*

*•    ‘He is right because the square slabs are £1.95 each and the  
     rectangular slabs are £3.50 each’.*

**1**

**[3]**

**M8.**          (a)     7

*Accept 7 r 55p.*

***Do not*** *accept 7 r 55*

**1**

(b)     Award **TWO** marks for the correct answer of £4.11

          If the answer is incorrect, award **ONE** mark for evidence of appropriate  
method, eg  
4 × 3.79 = 15.16  
8.95 + 15.16 = 24.11  
24.11 – 20

*Accept for* ***ONE*** *mark £411* ***OR*** *£411p as evidence of appropriate method.*

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2**

**[3]**

**M9.**          Award **TWO** marks for the correct answer of 150

          If the answer is incorrect, award **ONE** mark for evidence of appropriate  
working, eg  
800 ÷ 2 = 400  
400 – 250 = wrong answer

*Working must be carried through to reach an answer for the award of* ***ONE*** *mark.*

**Up to 2 (U1)**

**[2]**

**M10.**          Award **TWO** marks for the correct answer of 30p.

If the answer is incorrect, award **ONE** mark for evidence of appropriate  
working, eg

10p × 2 = 20p

£1 – 20p = 80p

80p ÷ 4 = 20p

20p + 10p = wrong answer

**OR**

£1 ÷ 2 = 50p

50p – 10p = 40p

40p ÷ 2 = 20p

20p + 10p = wrong answer

*Working must be carried through to reach an answer for the award of* ***ONE*** *mark.*

**Up to 2 (U1)**

**[2]**

**M11.**Award **TWO** marks for the correct answer of £1.55

If the answer is incorrect, award **ONE** mark for  
evidence of an appropriate method, eg

£5.40 – £0.75 = £4.65

£4.65 ÷ 3

*Accept for* ***ONE*** *mark £155* ***OR*** *£155p* ***OR*** *1.55p  
as evidence of an appropriate method.*

*Answer need not be obtained for the award  
of* ***ONE*** *mark.*

**Up to 2**

**[2]**

**M12.**Award **TWO** marks for a correct answer of 30

If the answer is incorrect, award **ONE** mark for evidence of appropriate working, eg:

■        10% of 200 = 20

25% of 200 = 50

50 – 20 = wrong answer

**OR**

■        25% – 10% = 15%

15% of 200 = wrong answer

*Working must be carried through to reach an answer for the award of* ***ONE*** *mark.*

**Up to 2m**

**[2]**

**M13.**Award **TWO** marks for the correct answer of 96

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

•        10.5 × 2 = 21  
21 + 11  = 32  
32 × 3

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2**

**[2]**