



BOOSTER WORKBOOK

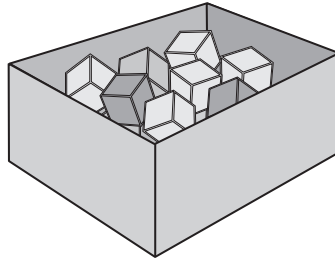
Ratio and Proportion R4

**Unequal sharing
and grouping**



1

There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,
four of the cubes are blue
and the rest are green.



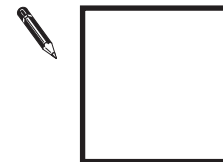
How many **green** cubes are in the box?

 Show your **method**. You may get a mark. 

2 marks

One more **blue** cube is put into the box.

What fraction of the cubes in the box are **blue** now?



1 mark

2

Calculate $\frac{3}{4}$ of **840**



1 mark



Peanuts cost **60p** for **100 grams**.

What is the cost of **350 grams** of peanuts?



Show
your **working**.
You may get
a mark.

2 marks

Raisins cost **80p** for **100 grams**.

Jack pays **£2** for a bag of raisins.

How many **grams of raisins** does he get?



Show
your **working**.
You may get
a mark.

g

15b

2 marks

4

Mari is the presenter of a weekly radio show.



She always plays **five** new songs for every **two** old songs.

Last week she played 15 **new** songs.

How many songs did she play **altogether**?

Show your **working**.
You may get a mark.

2 marks

5

Calculate $\frac{3}{4}$ of £15

 £

1 mark

6

Here is a recipe for raspberry ice cream.

raspberry ice cream
for 8 people

$\frac{1}{2}$ litre of cream

1kg raspberries

250g sugar



This recipe is for **8 people**.

Josie makes enough raspberry ice cream for **12 people**.

How much **cream** does she use?



litre

1 mark

Fred makes raspberry ice cream in the same way.

He uses $2\frac{1}{2}$ kg of raspberries.

How much **sugar** does he use?



Show
your **method**.
You may get
a mark.

g

2 marks

7





Sapna makes a fruit salad using bananas, oranges and apples.

For every one banana, she uses 2 oranges and 3 apples.

Sapna uses 24 fruits.

How many **oranges** does she use?

 Show your **method**. You may get a mark. 

oranges

2 marks

8

Calculate $\frac{3}{8}$ of 980



1 mark

9

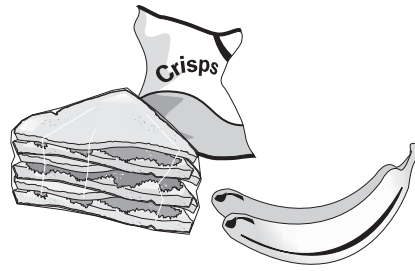
David and his friends prepare a picnic.

Each person at the picnic will get:

3 sandwiches

2 bananas

1 packet of crisps



The children pack **45** sandwiches.

How many **bananas** do they pack?



Show
your **method**.
You may get
a mark.

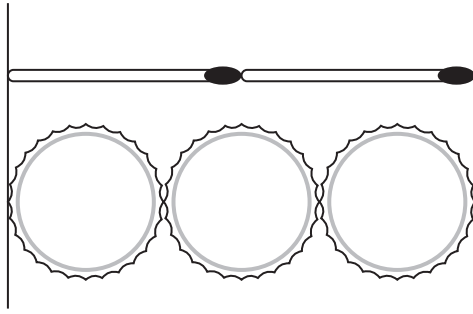


bananas


2 marks

10

Two matchsticks have the same length as three bottle tops.



How many bottle tops will have the same length as 50 matchsticks?

 Show your **working**. You may get a mark.

2 marks

11

Calculate $\frac{5}{12}$ of **378**



1 mark

12

Three-quarters of a number is **48**

What is the number?



1 mark