

Divide with Remainders

1. Aron is helping his dad prepare party bags for his Bar Mitzvah.

His dad has bought 1,436 sweets to share into party bags to give to the guests to take part in the tradition of sweet throwing at the event.



His dad has bought enough sweets so that there are:

A minimum
of 3 sweets
per bag

A maximum
of 8 sweets
per bag

Some sweets
left over

Explore the different possible combinations of number of sweets in a party bag, the number of bags made and the remaining sweets that will be left over for the family. Show your working out for four possibilities below.

A.

sweets per bag

bags

sweets remaining

B.

sweets per bag

bags

sweets remaining

C.

sweets per bag

bags

sweets remaining

D.

sweets per bag

bags

sweets remaining

Activity:

The aim of this activity is for children to practise dividing with remainders. Children will explore dividing using various single digits and decide if their calculation and answer meet the criteria given.

Vocabulary:

A **calculation** is a way to determine an amount. It may involve addition, subtraction, multiplication or division.

A **remainder** is the number that is left over when dividing. For example $12 \div 5 = 2 \text{ r } 2$.

Supporting resources:

You can watch a video tutorial about dividing with remainders on [<u>kids.classroomsecrets.co.uk</u>](https://kids.classroomsecrets.co.uk) >> **Year 5** >> **Maths** >> **Multiplication and Division** >> **Video Tutorials**.

You can watch the answer explanation video which takes children through this activity and ways to answer it on [https://www.youtube.com/user/ClassroomSecretsLtd/](https://www.youtube.com/user/ClassroomSecretsLtd/playlists) **playlists** >> **Year 5 Playlist** >> **Divide with Remainders Answer Explanation**.

Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on [<u>classroomsecrets.co.uk/membership</u>](https://classroomsecrets.co.uk/membership).

Check out our daily timetable for Year 5 home learning activities on [<u>kids.classroomsecrets.co.uk</u>](https://kids.classroomsecrets.co.uk) >> Home Learning Timetable.

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A.

	0	4	7	8	r2
3	1	¹ 4	² 3	² 6	

3 sweets per bag.

478 bags.

2 sweets remaining.

B.

	0	2	8	7	r1
5	1	¹ 4	⁴ 3	³ 6	

5 sweets per bag.

287 bags.

1 sweets remaining.

C.

	0	2	3	9	r2
6	1	¹ 4	² 3	⁵ 6	

6 sweets per bag.

239 bags.

2 sweets remaining.

D.

	0	2	0	5	r1
7	1	¹ 4	3	³ 6	

7 sweets per bag.

205 bags.

1 sweets remaining.