



Investigation 2

Powers of 2: Paper folding

Learner's Book page 164

Guidelines for implementing this activity

- Give each group an A4 page and show the class how to fold the page according to the diagrams and instructions in the Learner's Book.
- You could give a prize to the group that manages to fold the paper the most times.
- Go through this activity with the class once all the groups have finished and discuss their findings.

Suggested answers

1 1 fold and 2 pieces

2 2 folds and 4 pieces

3 3 folds and 8 pieces

4 4 folds and 16 pieces; 5 folds and 32 pieces

5 The folds are too thick and the pieces are too small.

6 1 024 pieces

7

No. of parts	1	2	4	8	16	3^2	64
Base 2	2^0	2^1	2^2	2^3	2^4	2^5	2^6

8 $2n$

No. of folds	0	1	2	3	4	5	6
No. of parts created	1	2	4	8	16	32	64