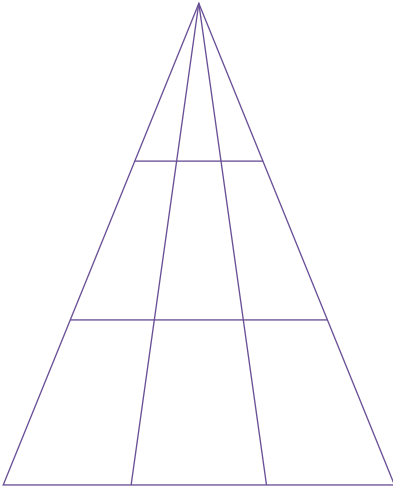
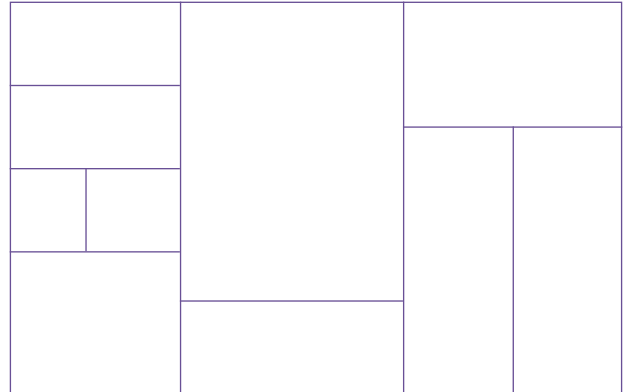


How many shapes?

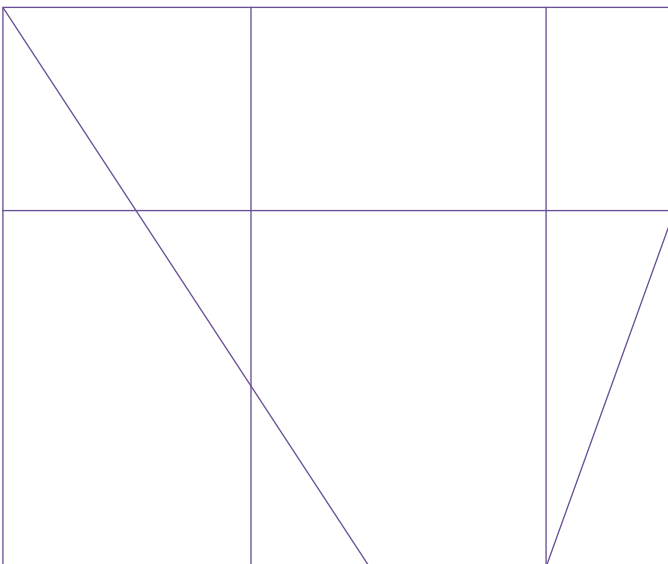
1. How many triangles can you see?



2. How many rectangles can you see?



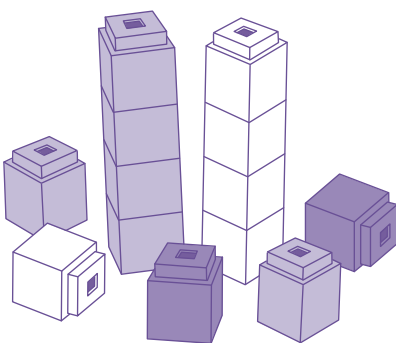
3. Look at this shape.



a) How many triangles can you see?

b) How many rectangles can you see?

Building towers

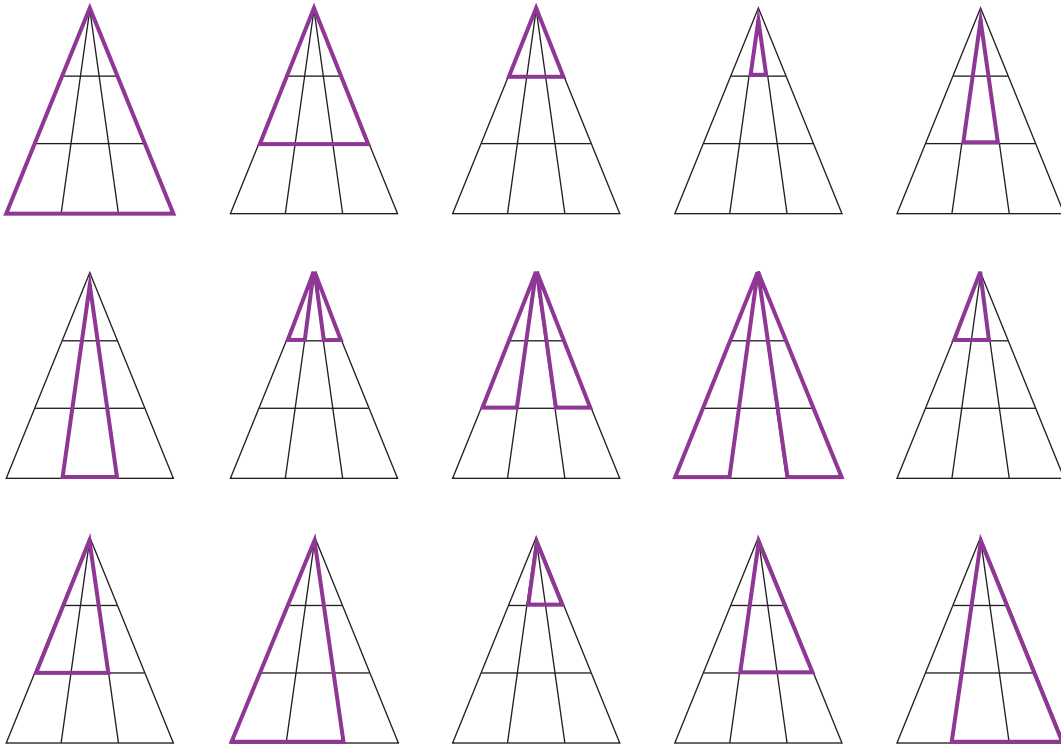


1. Daisy is building towers. Some of her blocks are orange and some are blue. If she builds towers that are always 4 blocks high, how many different colour combinations of 4-block towers could she build?

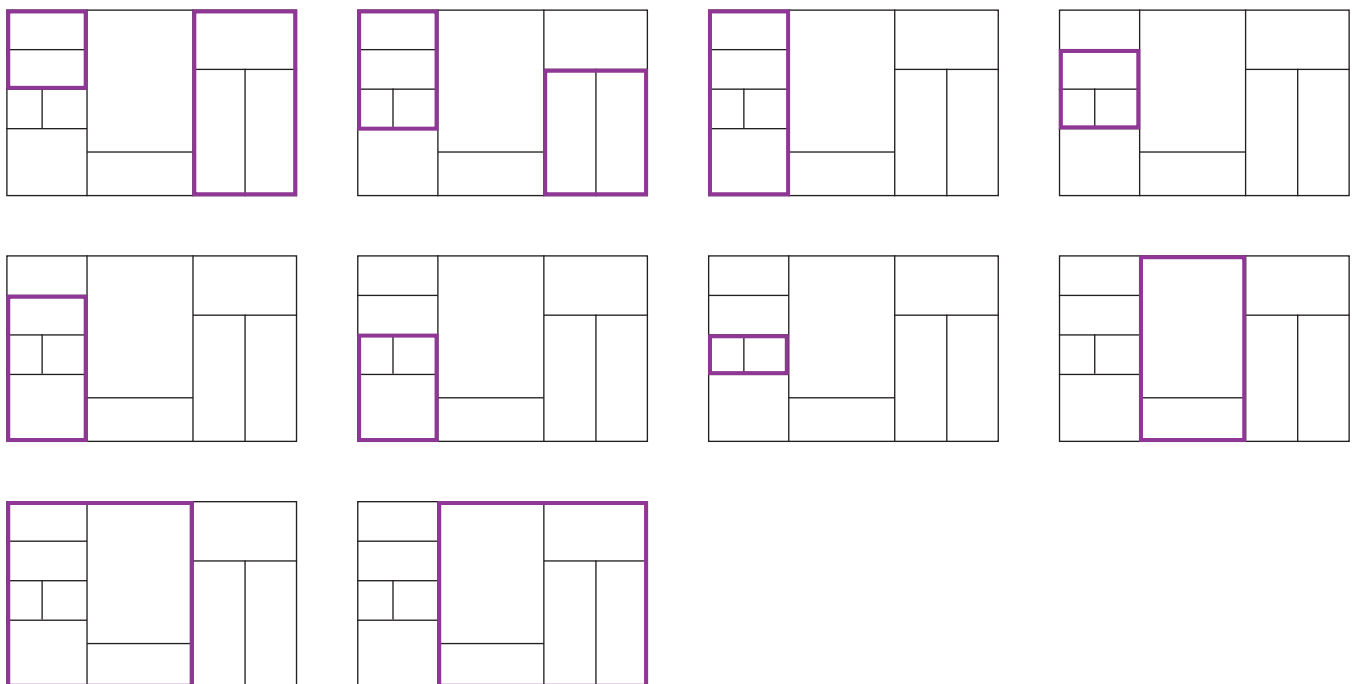
2. Daisy's mum gives her some red blocks to add to her orange and blue blocks. How many different 4-block towers could she make now, if she has at least one of each colour in each tower?

How many shapes?

1. 18 (shown in purple below)

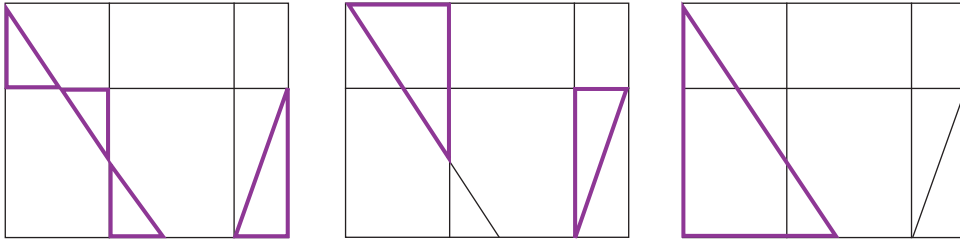


2. 23 (1 large outer rectangle, 10 individual inner rectangles and 12 rectangles made up of multiple inner rectangles, which are shown in purple below)

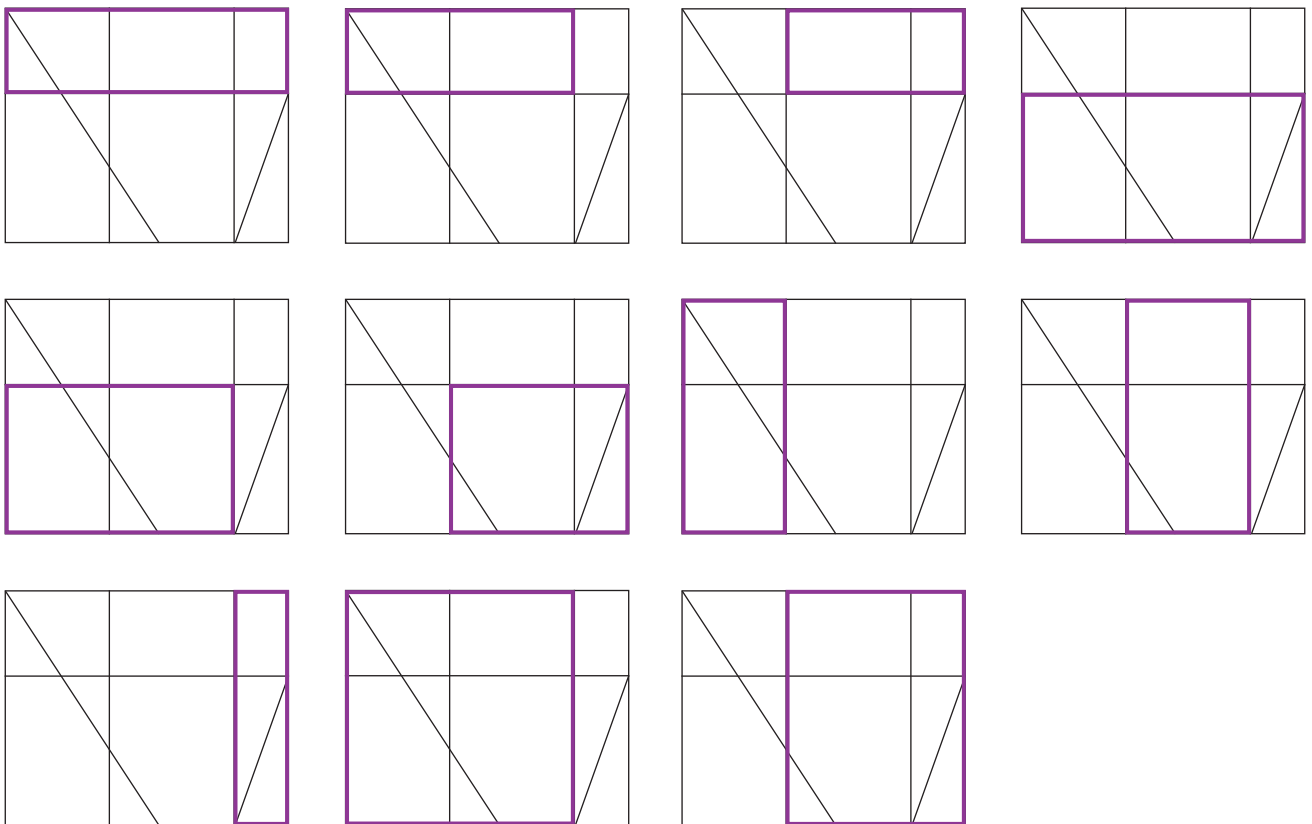


How many shapes?

3. a) 7 (shown in purple below)



b) 18 (1 large outer rectangle, 6 individual inner rectangles and 11 rectangles made up of multiple inner rectangles, which are shown in purple below)



Building towers

1. 16 (OOOO OOOB OORB OBBB BBBB BBBO BBOO BOOO BOBO BOOB
OBOB OBBO OBOO OOB OBBB BBOB)

2. 30 (RRBO RROB RBOR ROBR BORR OBRR RORB RBRO BROR ORBR
BBRO BBOR BROB BORB ROBB ORBB BRBO BOBR BOOB OBRB
OORR OORB OBRO ORBO BROO RBOO OBOR OROB BORO ROBO)