Mathematics
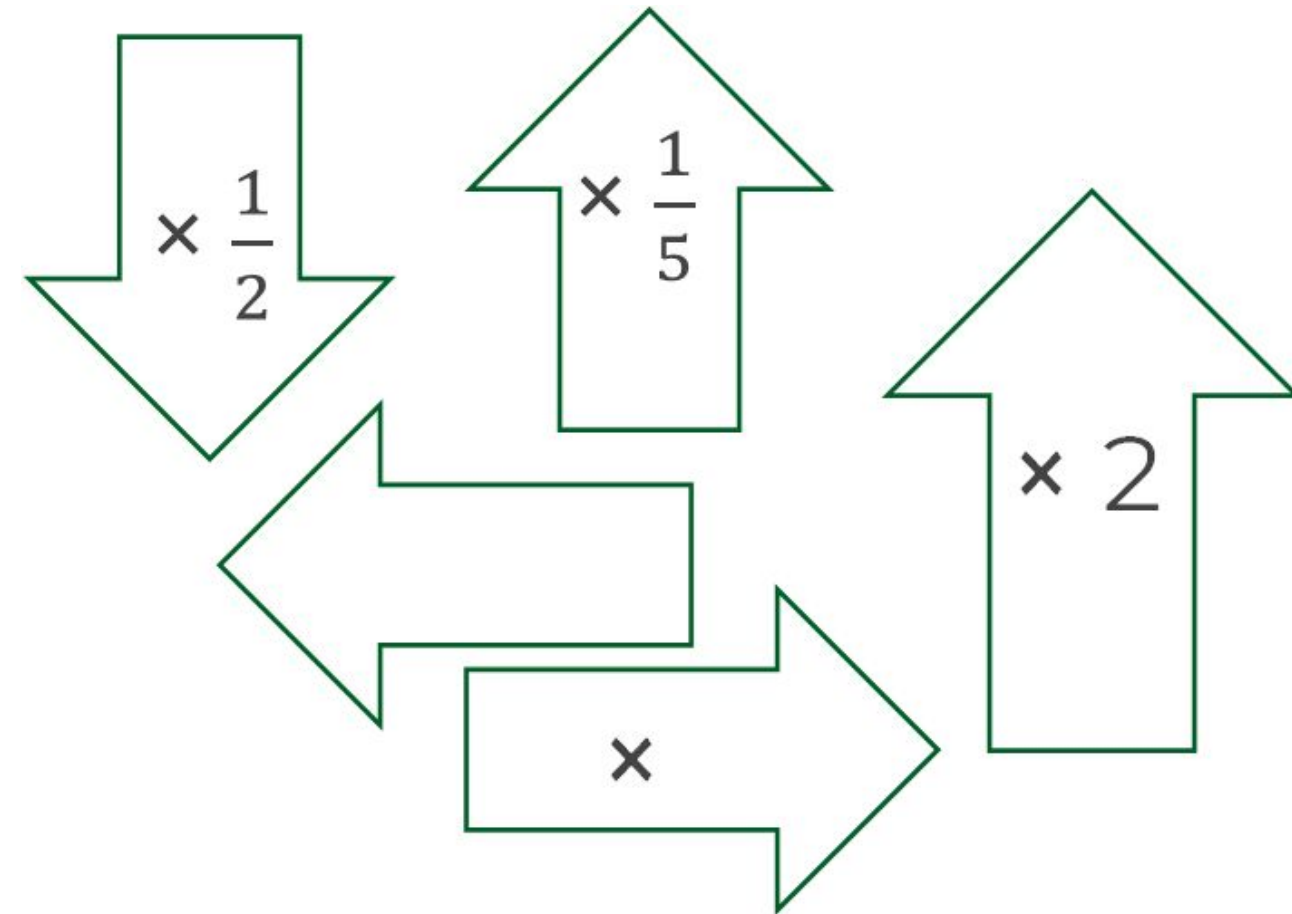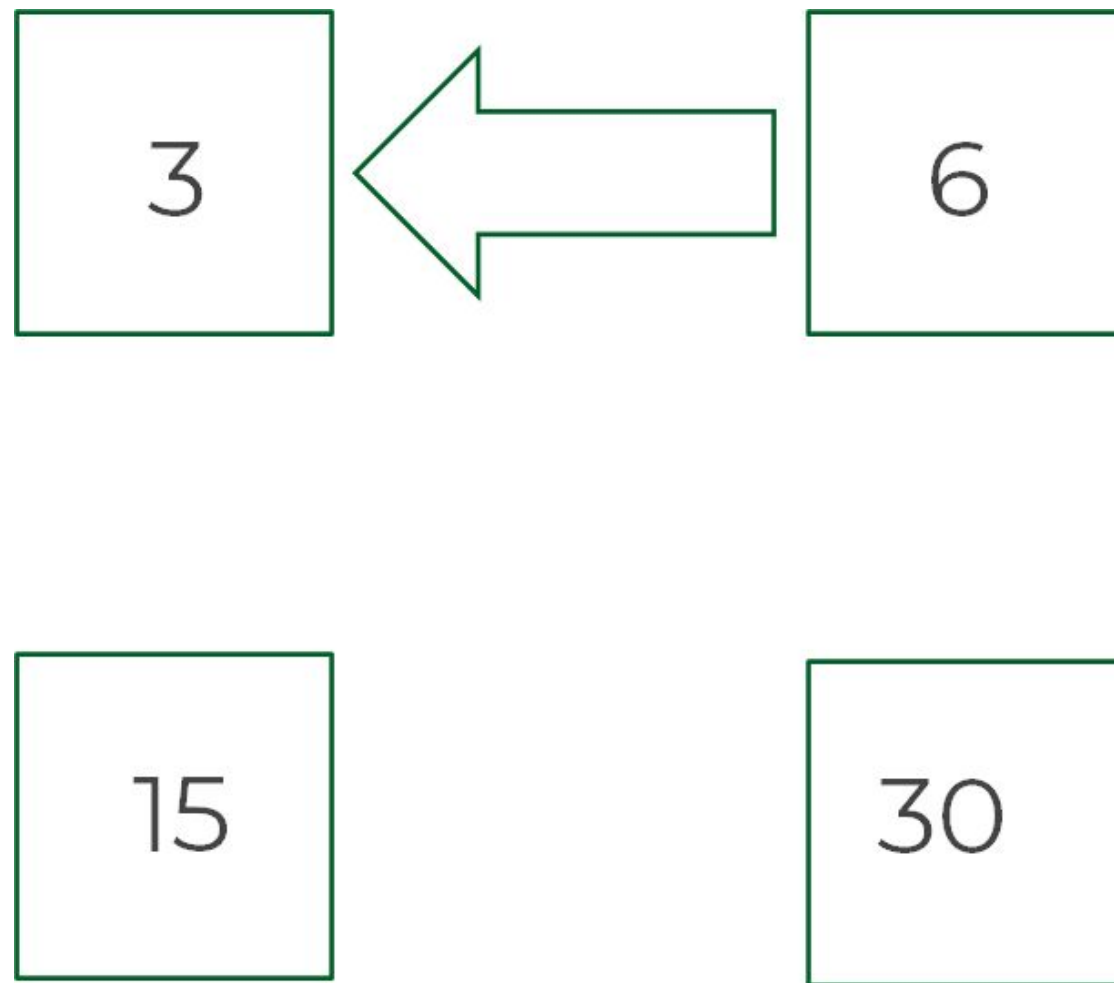
Direct proportion (3)

Downloadable resource

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Try this

How many different arrows can you place between these boxes?

Move the boxes around. Do you need different arrows?

Independent task

1) A shop sells ribbon for £3 per metre. The length of the ribbon is directly proportional to its cost.

a) Complete the table.

Length of ribbon (m)	1	3	5	7
Cost	£3			

b) How much would 60 m of ribbon cost?
c) How much would 560 m of ribbon cost?
d) How many metres of ribbon can you buy with £980.

Independent task

2) 1 litre of fruit punch contains 200 ml of apple juice and is enough for 12 people.

a) How much apple juice is there in 1.5 litres of fruit juice?

b) Harry used 2 litres of apple juice for the same recipe.

How many people was this enough for?

3) Karen bought 12 individual packs of crisps priced at 70 pence each. How much money could she have saved if she had bought multi-pack bags of 6, each at a cost of £2.79?

Explore

Pete is painting the walls of his bedroom. So far, he has used 5 litres of paint and covered 24 m^2 of wall.

What area will 10 litres cover?

What area will 30 litres cover?

How much paint will cover 240 m^2?

In each case, explain how you worked out the answer.

What area will 7 litres cover?

How many methods can you use to solve this?