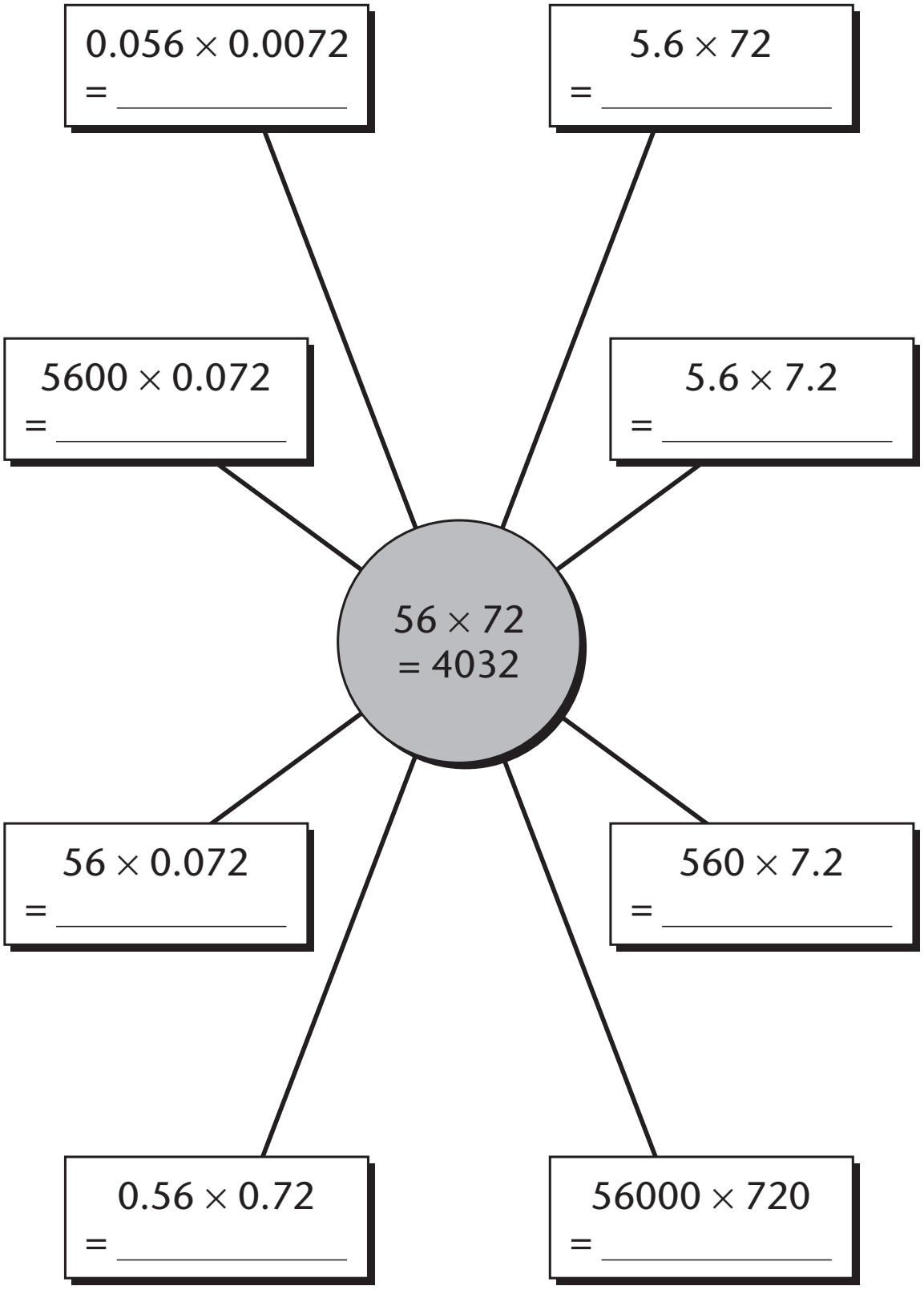
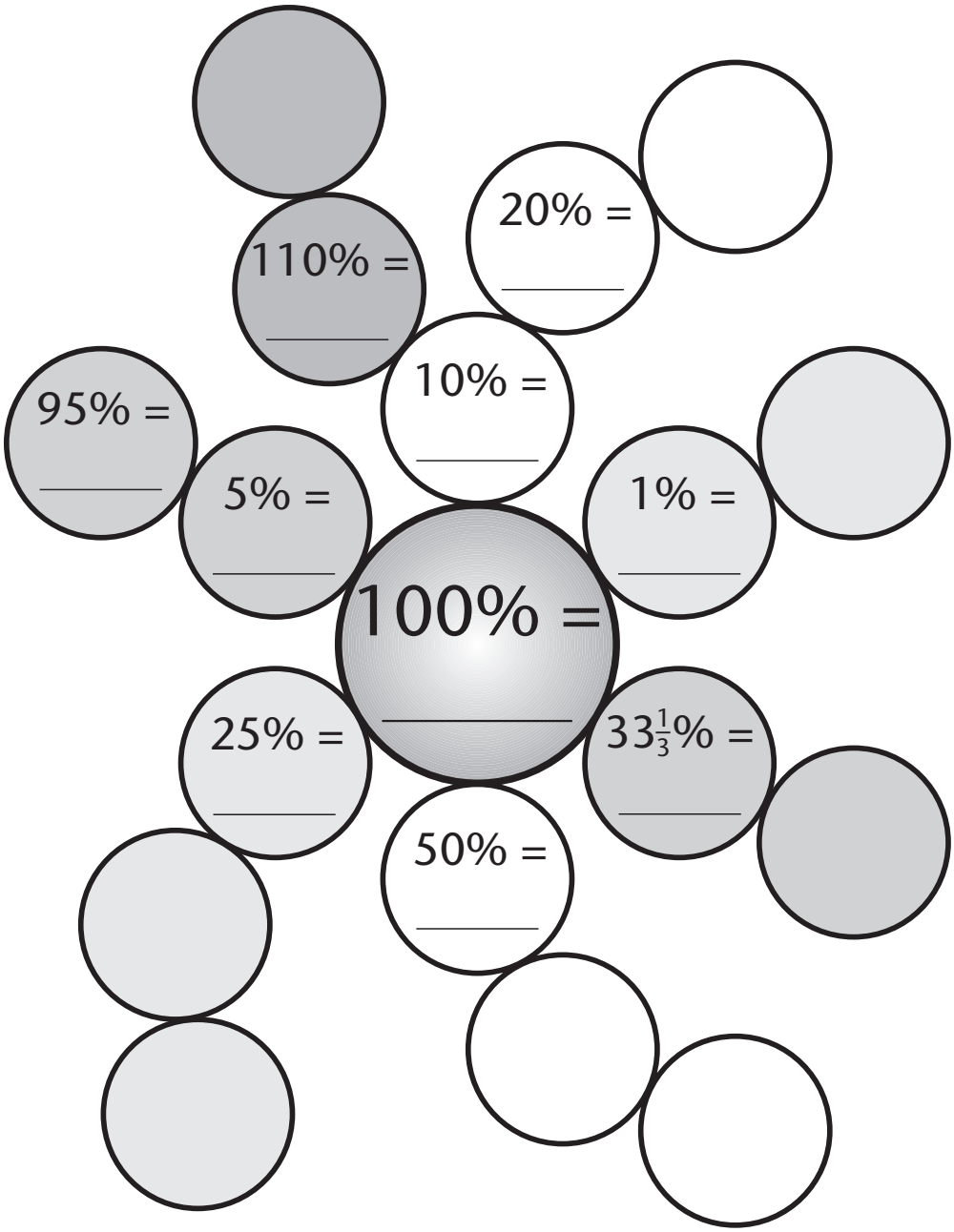
Hundreds and thousands



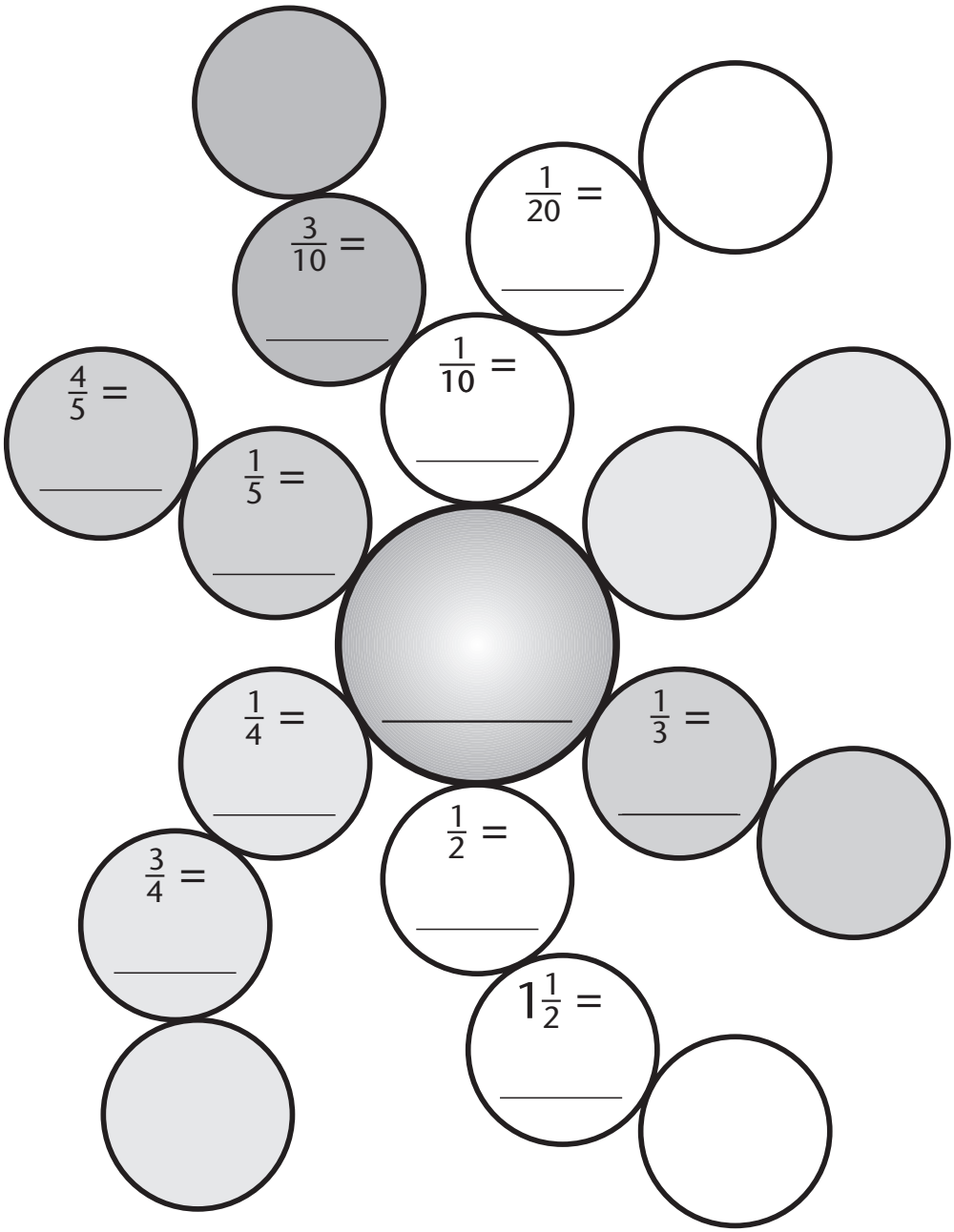
Sports results

Javelin	Long jump	Pole vaulting
A 62.29 m	**A** 7.185 m	**A** 5.90 m
B 62.305 m	**B** 701.8 cm	**B** 5.095 m
C 62.3 m	**C** 7049 mm	**C** 500.9 cm
D 62.35 m	**D** 700.5 cm	**D** 5090.5 mm
E 62.285 m	**E** 7.108 m	**E** 0.005 945 km
1st _____	**1st** _____	**1st** _____
2nd _____	**2nd** _____	**2nd** _____
3rd _____	**3rd** _____	**3rd** _____
4th _____	**4th** _____	**4th** _____
5th _____	**5th** _____	**5th** _____

Stepping stones to percentages



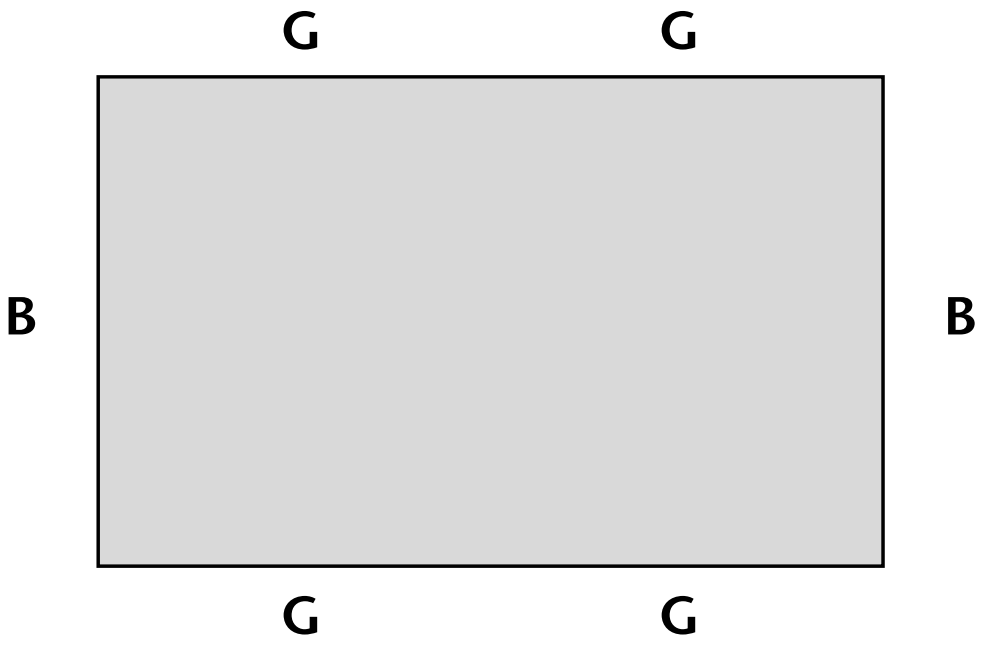
Stepping stones to fractions



Year 9 maths

At Kings School, all Year 9 forms have 24 pupils.

In Form 9B maths lessons, pupils are grouped at tables like this.



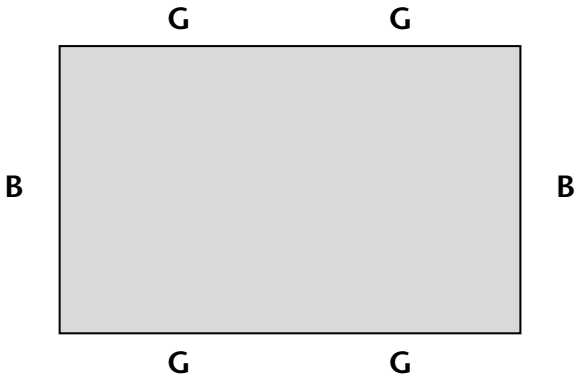
Year 9 maths

At Kings School, all Year 9 forms have 24 pupils.

In Form 9B, there are 2 boys to every 4 girls.

number of boys : number of girls = 2 : 4

In maths lessons, they are grouped at tables like this.



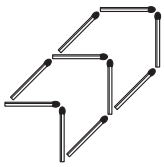
Complete this table for all Year 9 maths groups.

Form	Each table	No. of tables	Ratio G : B	Simplest ratio	Ratio B : G	Simplest ratio	No. of girls	No. of boys
9A	1G 1B							
9B	4G 2B		4 : 2	2 : 1				
9C	3G 1B							
9D	5G 3B							
9E	4G 8B							
9F								
9G								

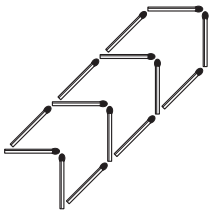
Arrows

Arrows 1

1 arrow needs _____ matches.



2 arrows need _____ matches.

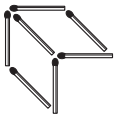


3 arrows need _____ matches.

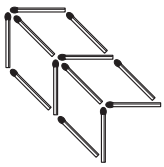
Rule: $m = 4a + 2$

where a is the number of arrows
and m is the number of matches

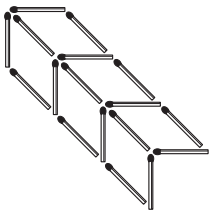
Arrows 2



1 arrow needs _____ matches.



2 arrows need _____ matches.



3 arrows need _____ matches.

Rule: $m =$ _____

where a is the number of arrows
and m is the number of matches

Twelve days of Christmas (1)

Match the expressions.

On the 1st day of Christmas, my true love gave to me n presents.

On the 2nd day, half as many as the 1st day.

On the 3rd day, double the number on the 1st day.

On the 7th day, six more than double the number on the 1st day.

$2n + 6$

$2 + n$

$2n$

$2(n + 6)$

$\frac{n}{2}$

n

Twelve days of Christmas (1)

On the 1st day, my true love gave to me … *n* presents.	n^2
On the 2nd day, my true love gave to me … half as many as the 1st day.	$5 - n$
On the 3rd day, my true love gave to me … double the number on the 1st day.	$2n + 12$
On the 4th day, my true love gave to me … two more than the number on the 1st day.	n
On the 5th day, my true love gave to me … two less than the number on the 1st day.	$2(n + 6)$
On the 6th day, my true love gave to me … two subtract the number on the 1st day.	$6n + 4$
On the 7th day, my true love gave to me … six more than double the number on the 1st day.	$5 + \frac{n}{2}$
On the 8th day, my true love gave to me … six more than the number on the 1st day, times two (two expressions).	$n + 2$
On the 9th day, my true love gave to me … the square of the number on the 1st day.	$2 - n$
On the 10th day, my true love gave to me … three times the number on the 3rd day, plus four.	$\frac{n}{2}$
On the 11th day, my true love gave to me … seven minus the number on the 4th day.	$n - 2$
On the 12th day, my true love gave to me … five plus half of the number on the 1st day.	$2n$
	$2n + 6$

Twelve days of Christmas (2)

Match the expressions.

On the 1st day of Christmas, my true love gave to me x presents

On the 2nd day, a fifth of the number on the 1st day.

On the 3rd day, five times the number on the 1st day.

On the 7th day, five less than the number on the 1st day.

On the 12th day, three plus a fifth of the number on the 1st day.

$5x$

$x - 5$

$3 + \frac{x}{5}$

$\frac{x}{5}$

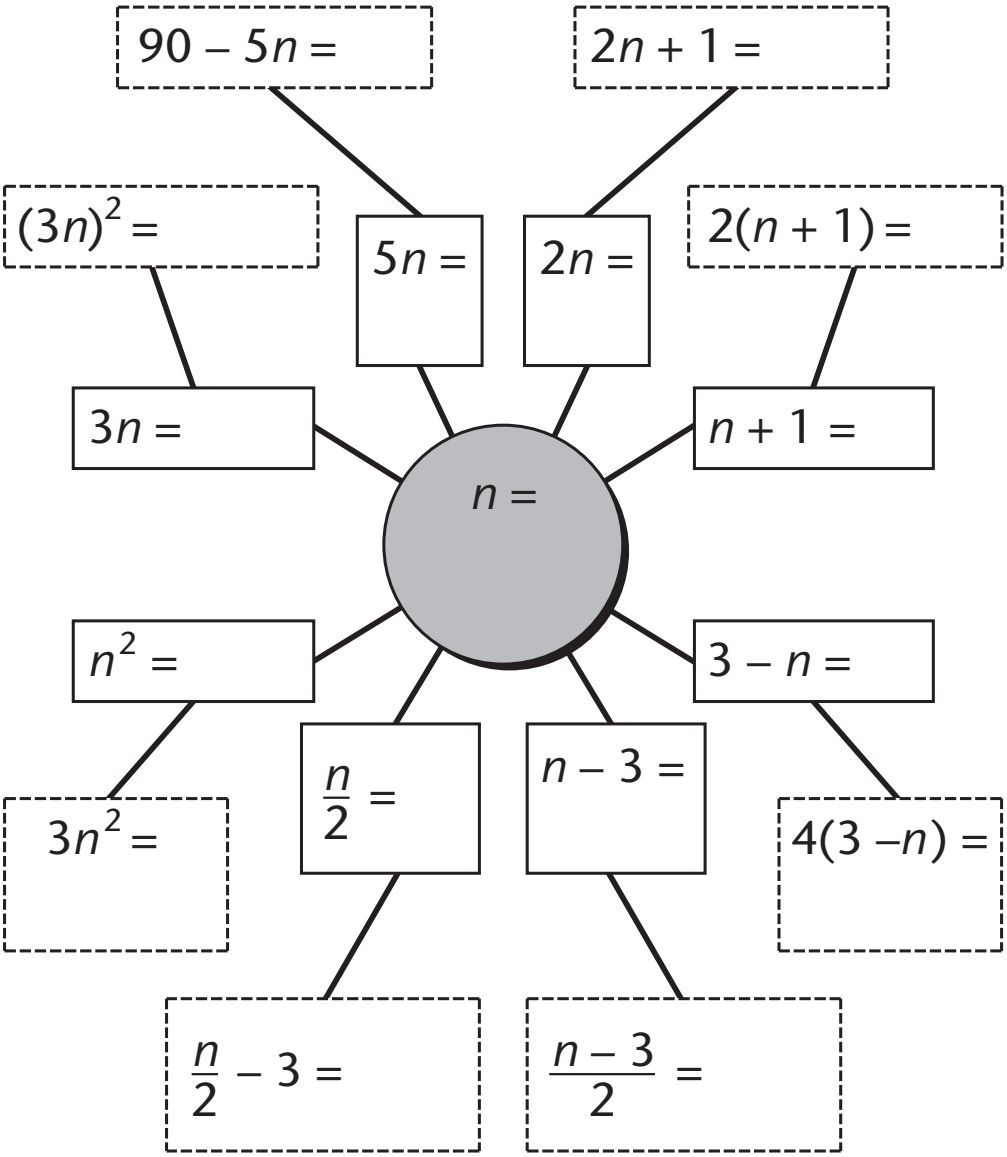
$x + 5$

x

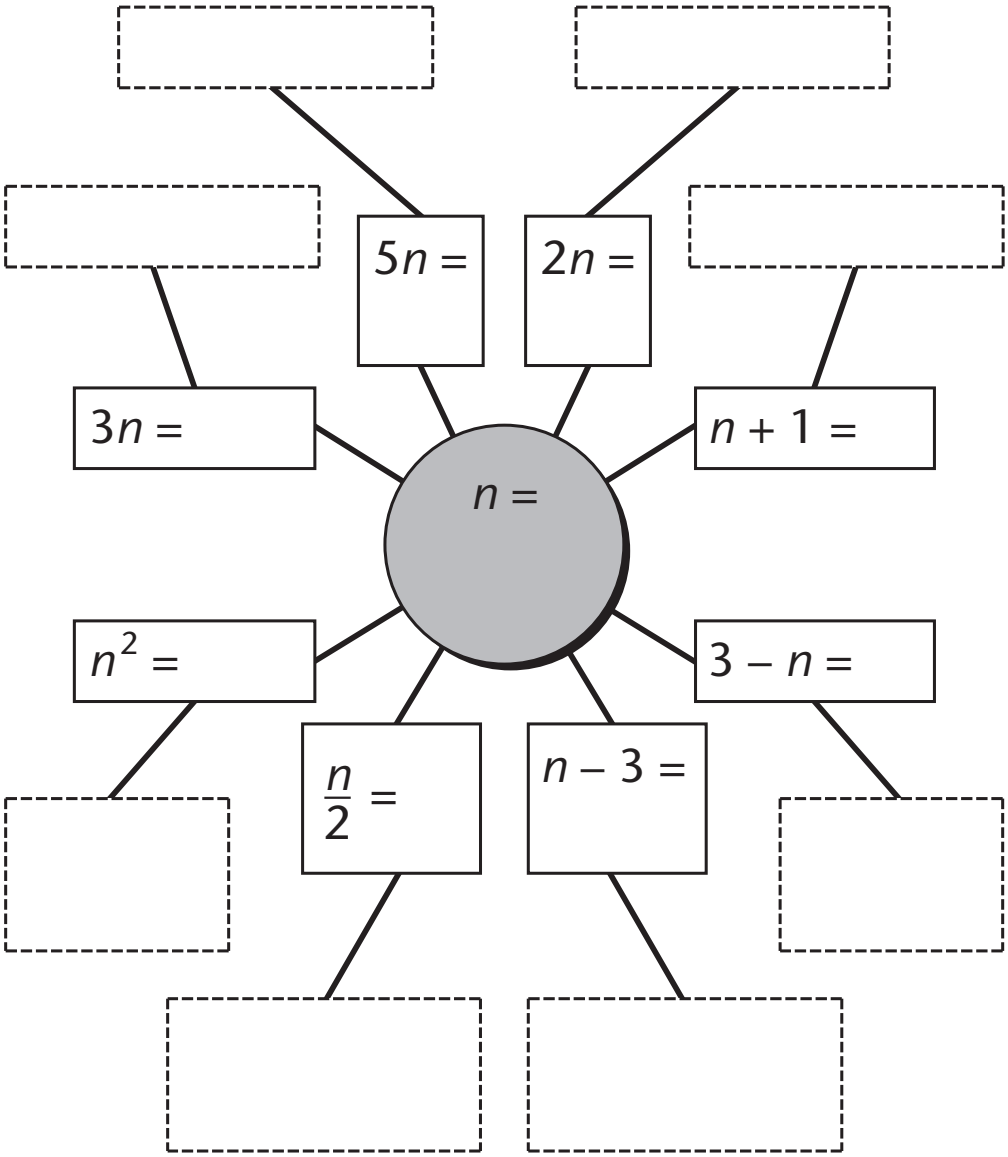
Twelve days of Christmas (2)

On the 1st day, my true love gave to me … x presents.	$x + 5$
On the 2nd day, my true love gave to me … a fifth of the number on the 1st day	$20x - 6$
On the 3rd day, my true love gave to me … five times the number on the 1st day.	x
On the 4th day, my true love gave to me … five more than the number on the 1st day.	$2x^2$
On the 5th day, my true love gave to me … five less than the number on the 1st day.	$4x + 10$
On the 6th day, my true love gave to me … fifteen subtract the number on the 1st day.	$\frac{x}{5}$
On the 7th day, my true love gave to me … ten more than four times the number on the 1st day.	$15 - x$
On the 8th day, my true love gave to me … ten more than the number on the 1st day, times four (2 expressions).	$5x$
On the 9th day, my true love gave to me … twice the square of the number on the 1st day.	$3 + \frac{x}{5}$
On the 10th day, my true love gave to me … four times the number on the 3rd day minus six.	$4(x + 10)$
On the 11th day, my true love gave to me … sixteen minus the number on the 4th day.	$11 - x$
On the 12th day, my true love gave to me … three plus a fifth of the number on the 1st day.	$x - 5$
	$4x + 40$

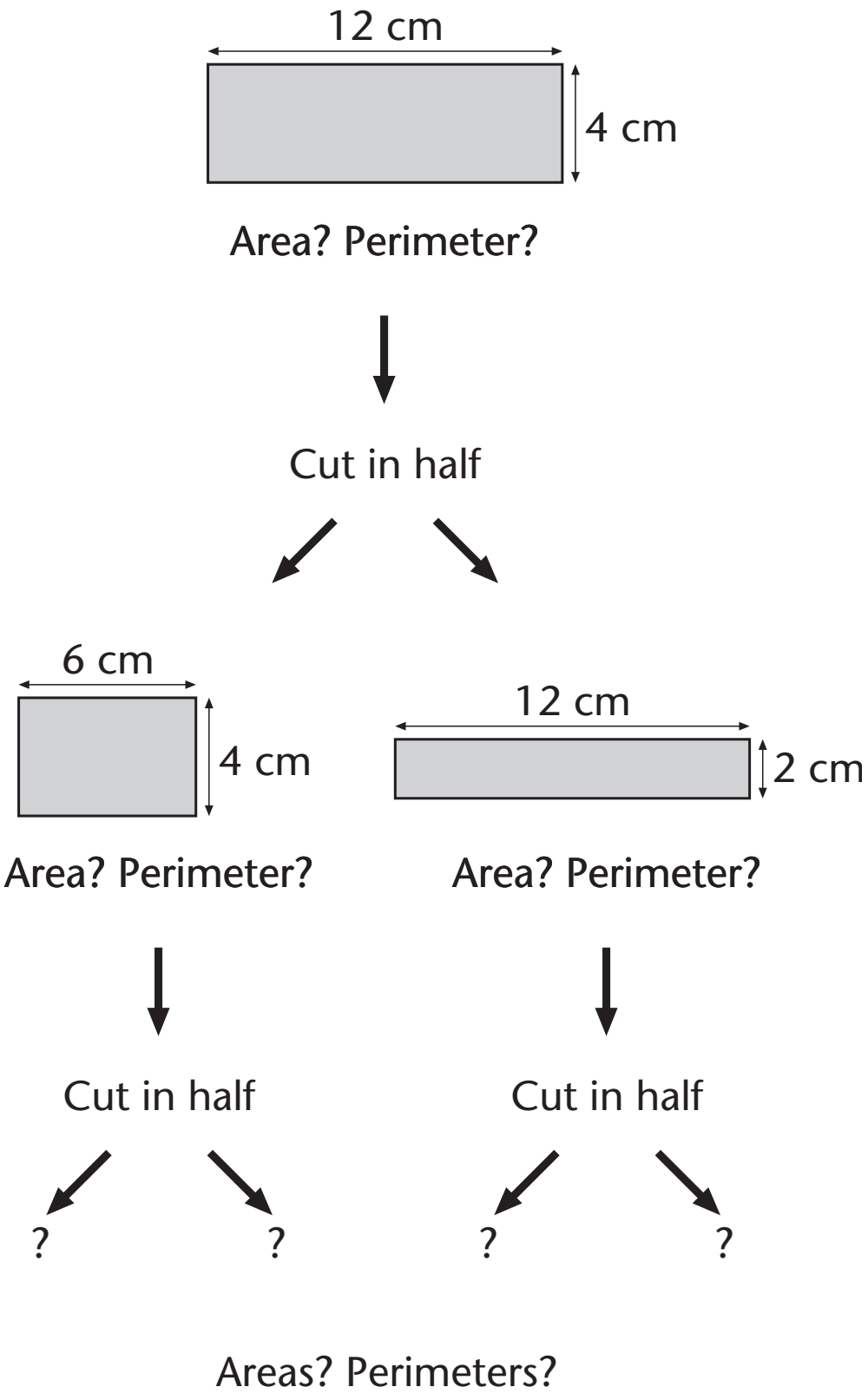
Substitution spider (1)



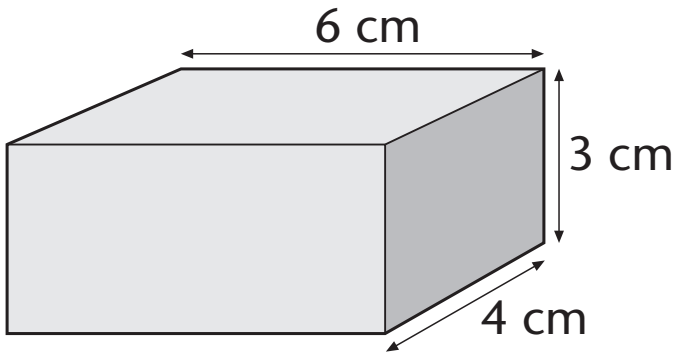
Substitution spider (2)



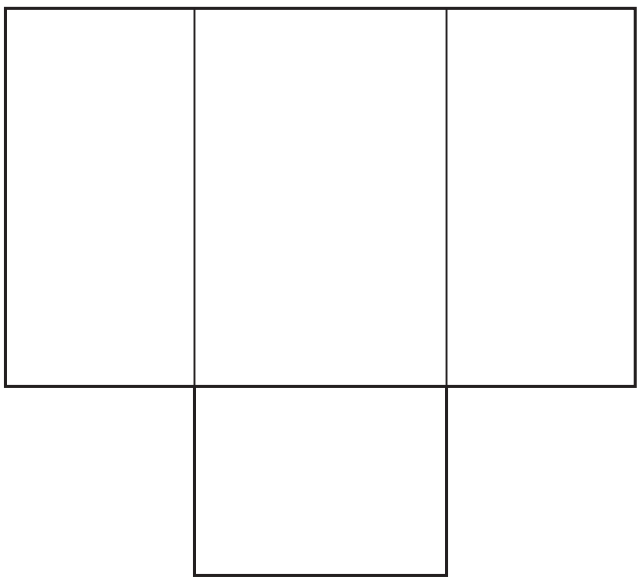
Halving rectangles



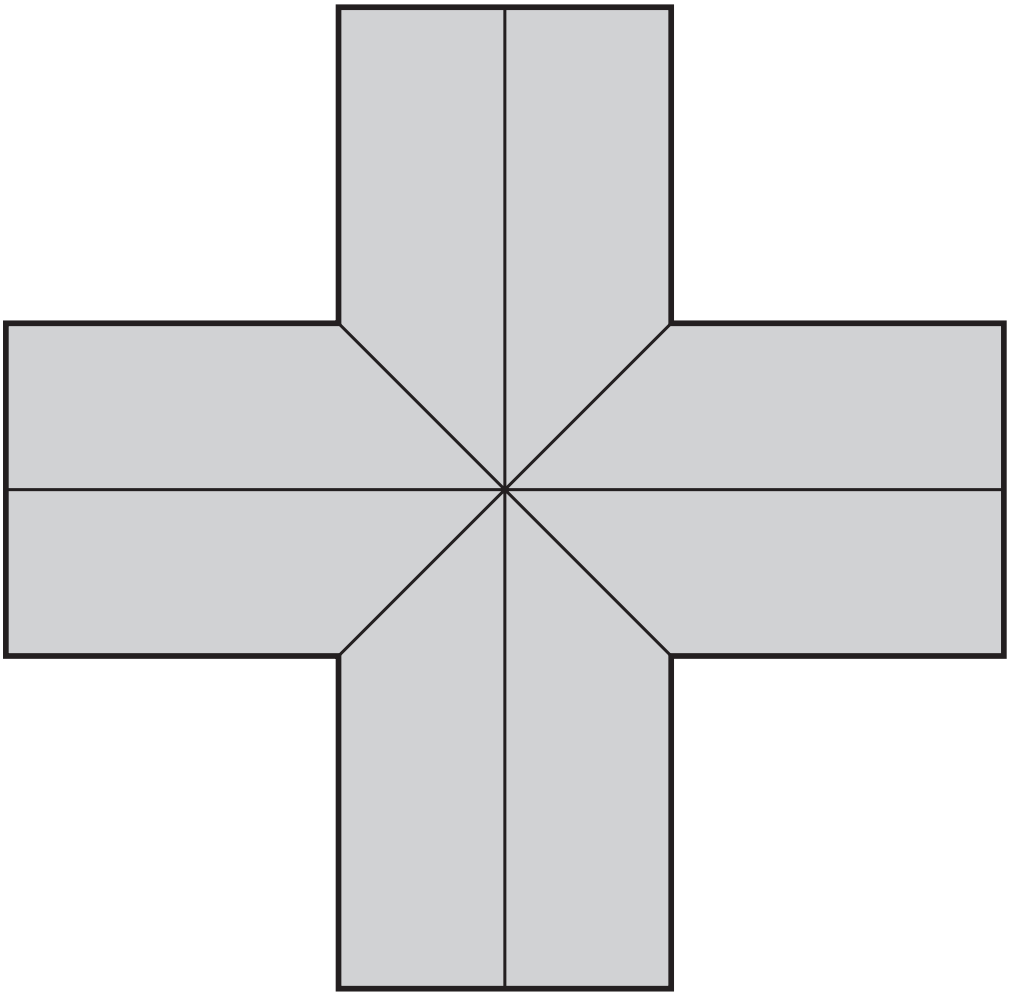
Nets of cuboids



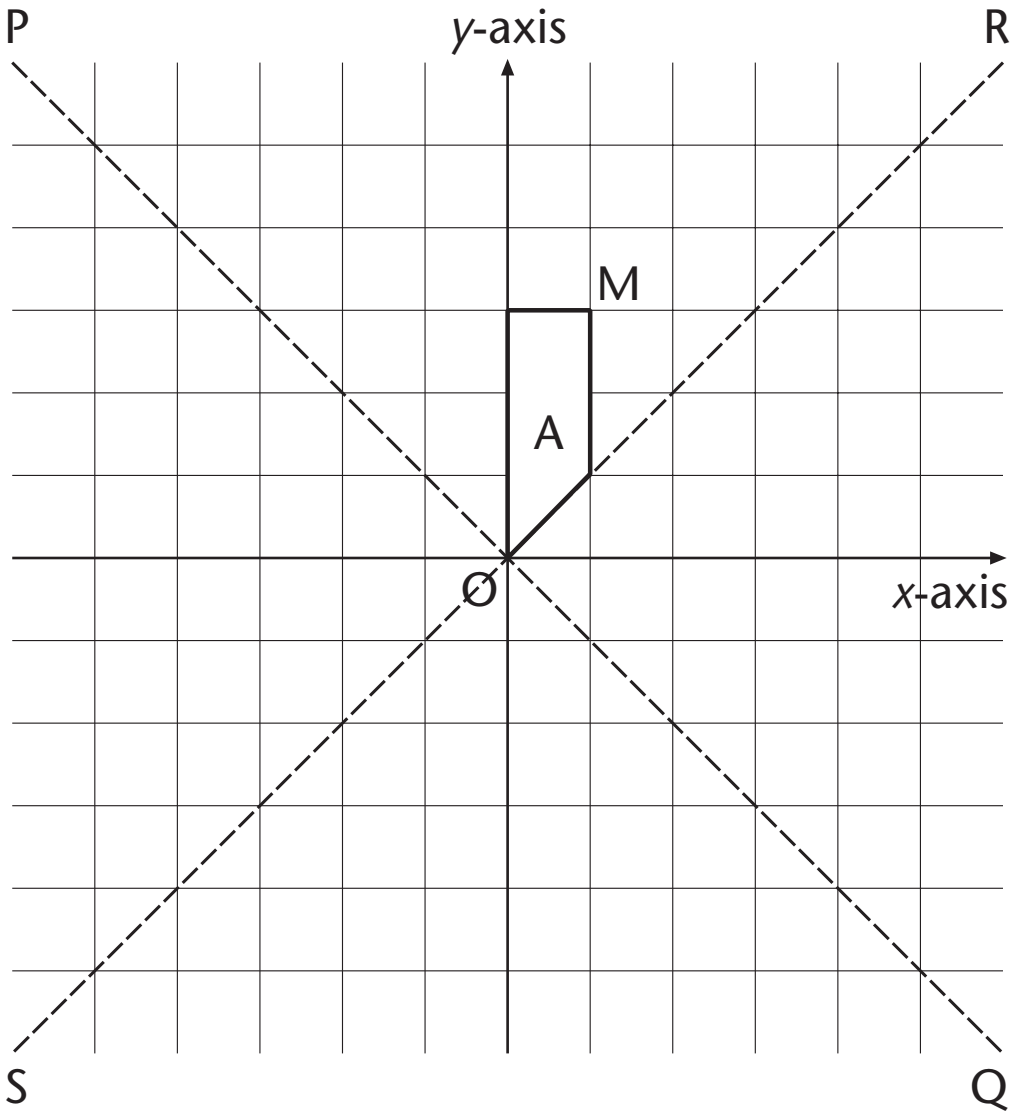
Complete its net below.



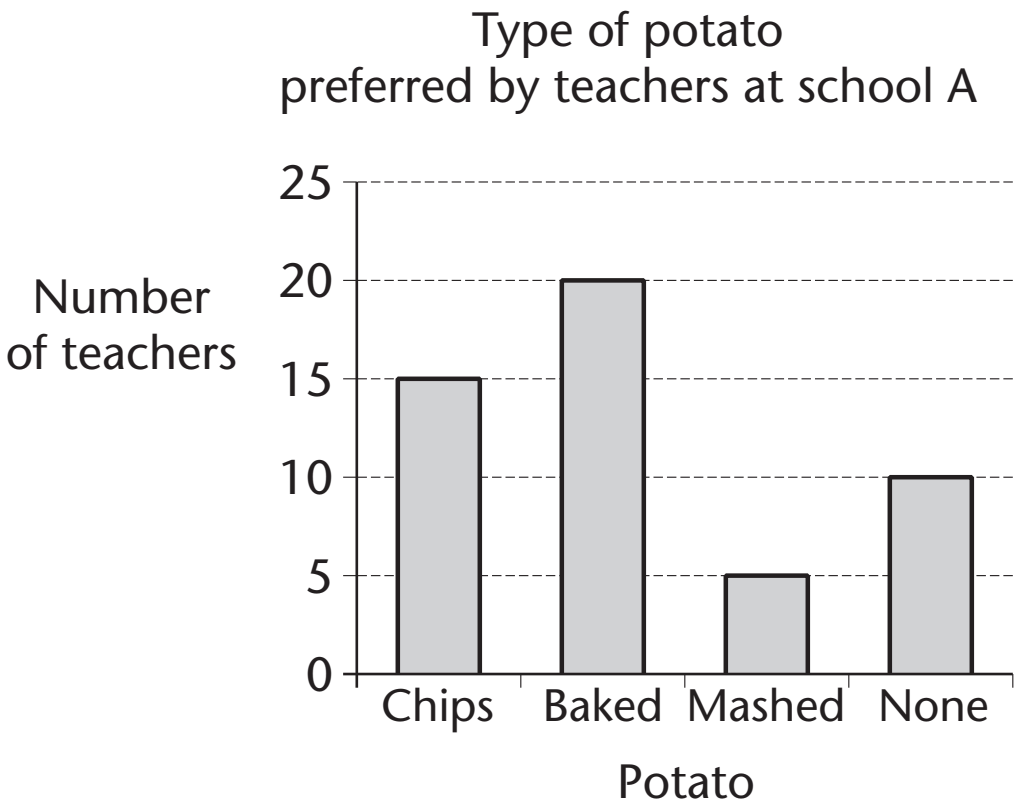
Angles and transformations



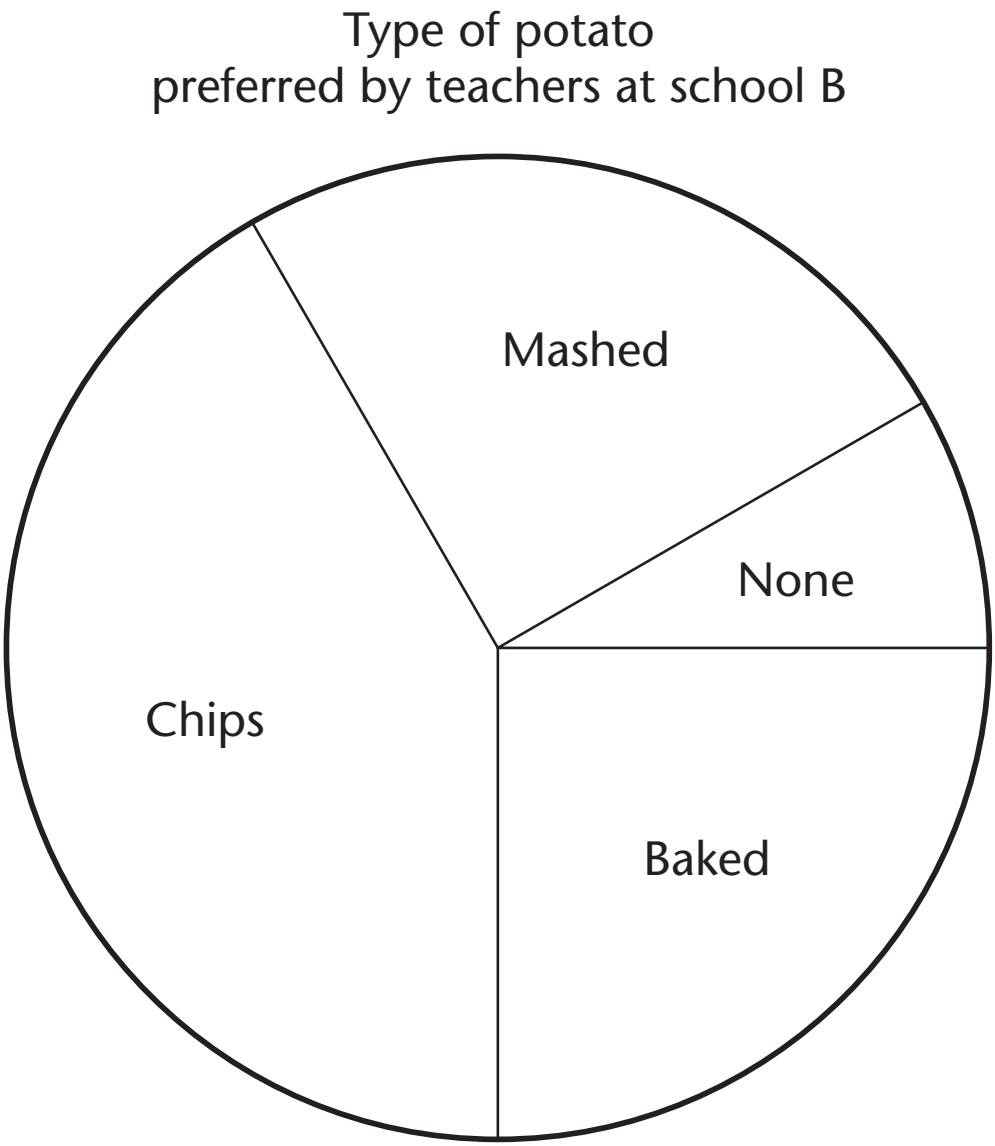
Transformations



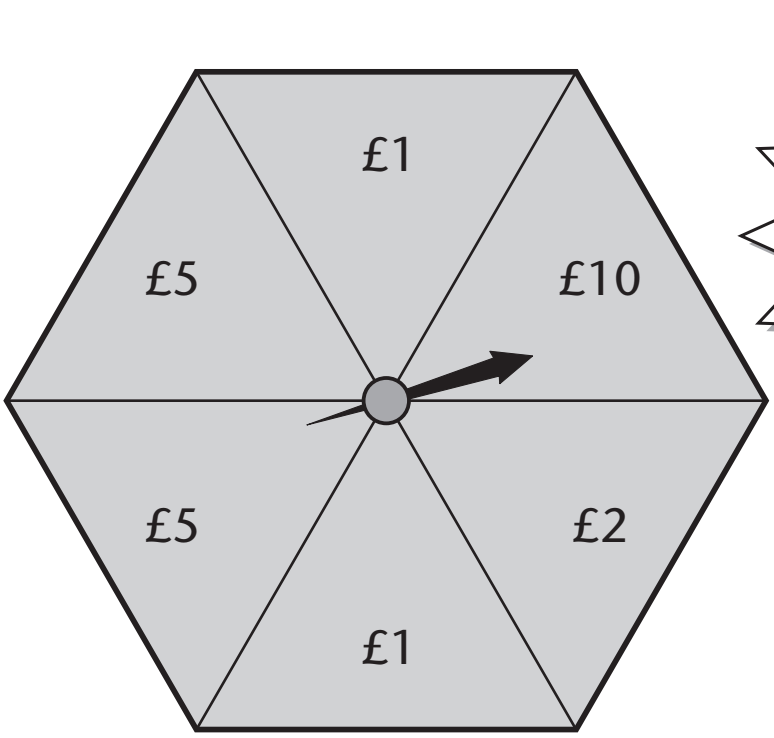
Potato bar chart



Potato pie chart

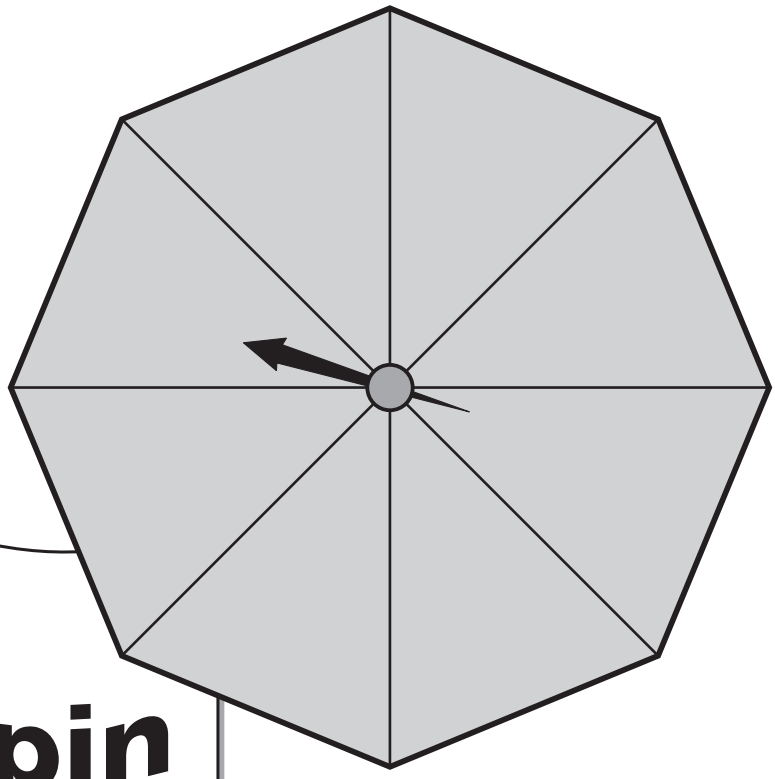


Fairground games



Hex-a-Spin

£1 a go



Only £1 a go

Oct-a-Spin

Mean maths 1

Mr Cullen	Form 9W
Maths test 1	

Amdeep	5
Bill	9
Colin	6
Debbie	1
Ellis	9

Mean maths 2

Mr Cullen Form 9W
Maths test 2

Amdeep	
Bill	
Colin	
Debbie	
Ellis	