

Maths Challenge Cards

Are you a maths whizz ?



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- ★ 0, 3, 6, 9... Will 300 be in this sequence? Why/why not?
- ★ The answer is 4.5. What is the question?
- ★ 3, 6, 12, 24... continue this sequence, which is nearest to 150?
- ★ What is the difference in temperature between -16°C and 4°C ?
- ★ The answer is 10.6. What is the question?



- ★ What is the total of the ticket money collected?
- ★ $\frac{7}{10}$ s of the takings from the tickets was given to charity. How much was this?
- ★ $\frac{3}{9}$ s of the people who came bought ice-creams. How much money was collected?

630 people go to a show. Programmes cost £2.80
Each ticket costs £2.90 Ice creams cost £1.50

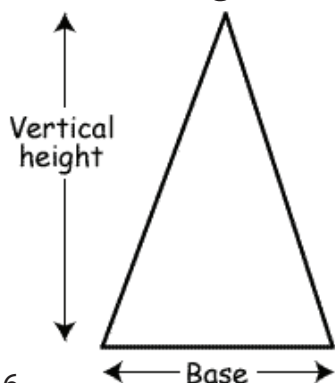
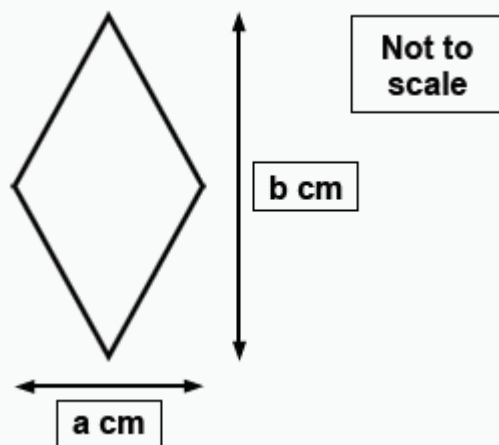


	Square number	Even number	Odd number	< 12
factor of 30				
multiple of 3				
multiple of 2				
> 8				

★ Draw this grid. Write the numbers 1 to 16 on small pieces of paper. Place the numbers on the grid so that they follow the rules.



★ Look at the shape, which is symmetrical. Given that $a=4$ and $b=8$. What is the area of the shape?

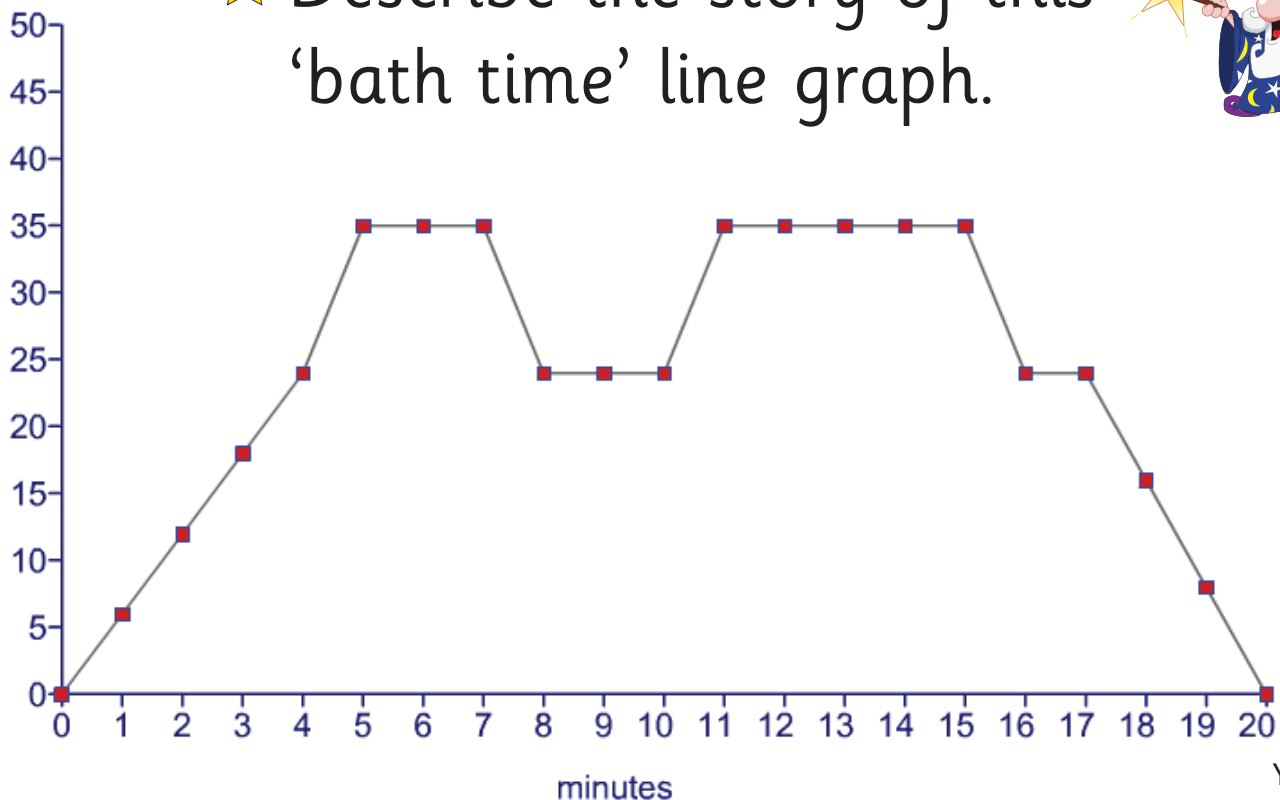


★ The base of the triangle is 6cm and the vertical height is 5cm. What is the area?



water level (cm)

★ Describe the story of this 'bath time' line graph.



Year 6

- ★ Write $\frac{6}{10}$ as a decimal number.
- ★ I have £1.00. I spend 45%. How much do I have left?
- ★ Order these fractions smallest to largest.
 $1\frac{1}{4}$, $2\frac{3}{4}$, $\frac{1}{4}$, $1\frac{1}{2}$, $2\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{1}{2}$
- ★ Draw a diagram with 70% shaded.
- ★ Draw a diagram with 0.25 shaded.
- ★ How many sixths are equivalent to $\frac{1}{3}$?



Year 6

- ★ Give 5 numbers where the mean is forty.
- ★ Give 5 numbers where the mean is forty AND the median is nine.
- ★ Give 7 numbers where the mean is eighty.
- ★ Give 7 numbers where the mean is eighty AND the median is thirteen.
- ★ Write your own problem similar to the ones above.



mean median mode mean median mode mean median

Number of matches in a box						
48	49	50	51	52	53	54
	✓	✓	✓	✓		✓
	✓	✓				✓
	✓					

★ Jill counts the matches in 10 boxes. She works out that the mean number of matches in a box is 50.

★ Here are her results for 9 boxes. Calculate how many matches are in the 10th box.



Pupils who receive more than five pounds per week



yr 4	20
yr 5	70
yr 2	25
yr 6	110
yr 3	30
yr 1	10

265 pupils questioned from year 1 to year 6.

★ Estimate the percentage of the pie chart for each class.

★ Now work out the exact percentages with a calculator.

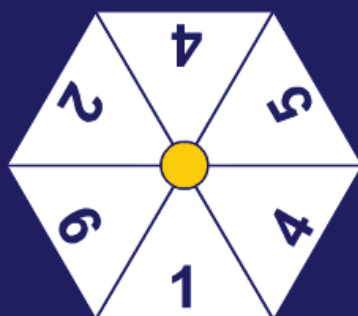
★ How accurate were your estimates?



Year 6

- ★ Who's spinner is more likely to spin a 2? Why?
- ★ Compare the chances of the 3 spinners spinning an odd number.
- ★ Carol says "I have the greatest chance of spinning a square number". Explain why she is correct.
- ★ Write 3 of your own problems about the spinners.

Miranda's



Carol's



Phil's



Year 6