

# Number Nest Weekly Challenge

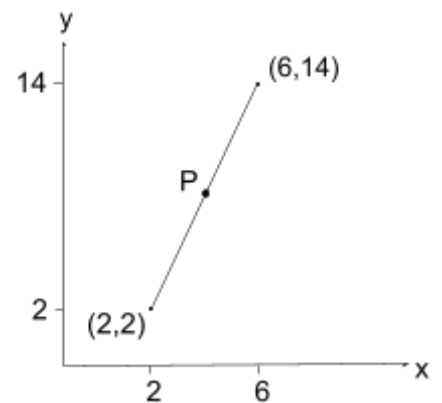


## Warm up

- What is the missing number: 80, 40, \_\_, 10, 5
- Which number is bigger: 66% or  $\frac{3}{4}$
- How many hours are in 5 days? What is 2 hours in seconds?
- Round 386900 to the nearest thousand.
- Round 274.38 to the nearest tens.

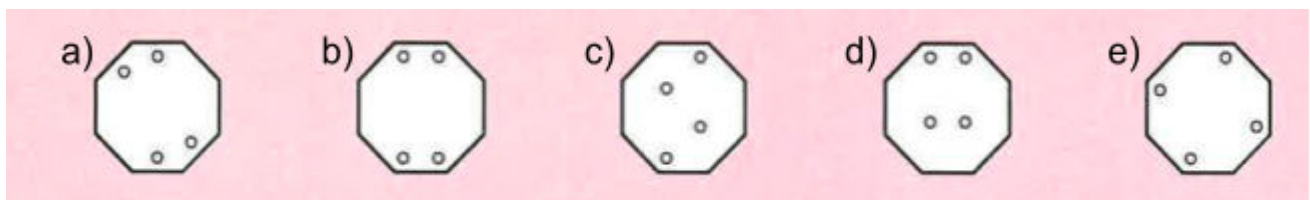
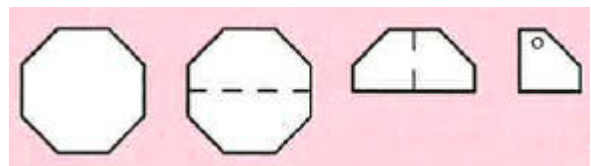
## Main challenge

1. Aria draws a straight line from from (2,2) to (6, 14) on the graph. Point P is exactly halfway on the line. What are the coordinates of point P?



2. The piece of paper on the right is folded in half twice as shown, and a hole is punched through the resulting folded shape.

What would the paper look like unfolded?



3. The lightest birds in the world are bee hummingbirds, 5000 of which would weigh 8 kilograms. How heavy is an individual hummingbird in grams? How many hummingbirds would weigh 8 tonnes together?

4. Which one of these calculations is **incorrect**?

a)  $4 \times 5 + 67 = 45 + 6 \times 7$       b)  $3 \times 7 + 48 = 37 + 4 \times 8$       c)  $6 \times 3 + 85 = 63 + 8 \times 5$

d)  $2 \times 5 + 69 = 25 + 6 \times 9$       e)  $9 \times 6 + 73 = 96 + 7 \times 3$

### Bonus

At midday the hour and minute hands of a clock sit on top of each other perfectly.

In a little over one hour they will again be on top of each other.

What is the exact time that happens?

