

# Homework 6

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Hand in: \_\_\_\_\_

Do not use a calculator for questions 1-10. **You must show all your working out.** You may need to look up definitions or ask for some extra help either at home or at school for some of these questions.

1. $4.86 + 2.38 =$	2. $14.65 - 3.75 =$
3. $42 \times 23 =$	4. $182 \div 3 =$

5. Find five eighths of 64.	6. Write the following numbers in descending order. 4.04, 4.44, 0.44
7. Decrease 20 by 15%	8. What is the probability of rolling a square number on a dice?
9. Ben buys 3 items costing £10.45 altogether. Two of the items cost £1.45 and £7.50. How much is the third item?	10. How many days are there in one year?

**Gold:**

Complete the table below, A and B are the ends of line segments:

<b>A</b>	<b>B</b>	<b>Midpoint</b>
(2, 5)	(6, 11)	(4, 8)
(3, 6)	(7, 4)	(... , ...)
(10, 7)	(... , ...)	(6, 3)
(... , ...)	(2, 9)	(7, 10)
(-2, 0)	(6, -4)	(... , ...)
(3, -5)	(... , ...)	(-5, -2.5)

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**Silver:**

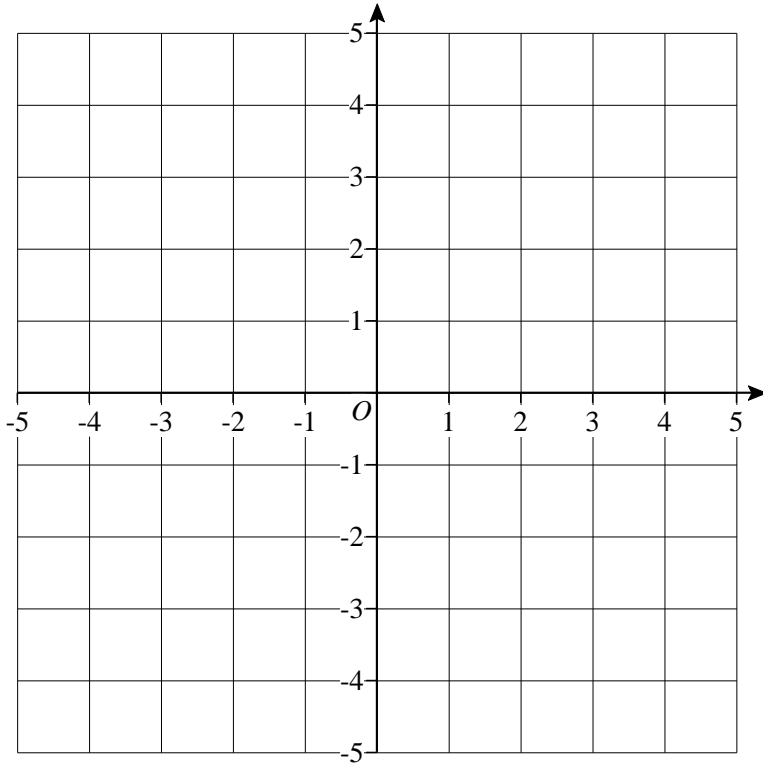
The x coordinate is half of the y-coordinate.

Write down 5 pairs of coordinates that satisfy this.

Plot them on the axes below.

What do you notice?

- 1.)
- 2.)
- 3.)
- 4.)
- 5.)



**Bronze:**

Write down 5 pairs of coordinates that meet the following rules.

a) The y-coordinate is two more than the x-coordinate.

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b) The x-coordinate and the y-coordinate add up to 5.

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