



SeaHawk Tutors

Edexcel IGCSE Maths: First 40 Marks Paper II

1. Calculate, giving all answers as mixed numbers in their simplest form:

a. $2\frac{3}{5} - 1\frac{3}{4}$

[2]

b. $1\frac{3}{5} \times 1\frac{3}{4}$

[2]

c. $3\frac{1}{3} \div 1\frac{1}{4}$

[2]

2. Purple paint is made by mixing red and blue paint in the ratio 4:7. Lulu has 1.6L of red paint.

a. How much purple can she make?

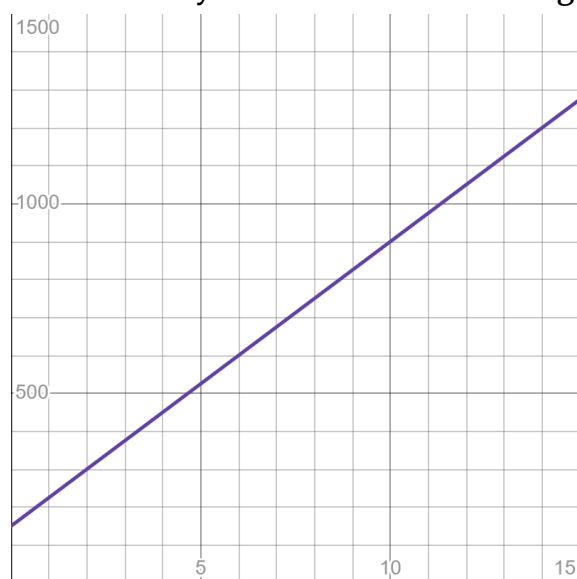
[2]

b. She makes 22L of purple paint during a week. She started with 19L of blue paint. How much blue paint did she have left over at the end of the week?

[2]

3. An arithmetic sequence begins 50,44,38,32.
- a. Find an expression for the n th term of the sequence. [2]
- b. What is the 10th term of the sequence? [1]

4. The graph below shows the number of frogs in a lake (on the y -axis) plotted against the number of days after measurements began (on the x -axis).



Use the graph to estimate:

- a. The number of frogs in the lake at the start of the measurements. [1]
- b. The number of days it took for the number of frogs to increase from 500 to 1000. [2]
- c. The percentage change in the number of frogs between day 6 and day 10. [2]

5.

a. Expand and simplify:

$$2(x - 3)(4x + 5)$$

[2]

b. Solve:

$$3(2x + 3) = x - 6$$

[2]

c. Given that

$$p = \frac{5c}{c+3}$$

Find p when c = 12

[2]

d.

i. Factorise $x^2 + 10x + 24$

[2]

ii. Hence solve $x^2 + 10x + 24 = 0$

[1]

6. A hockey pitch measures 91.4 m long and 55m wide. Calculate the length of the diagonal from one corner to the opposite corner. [3]

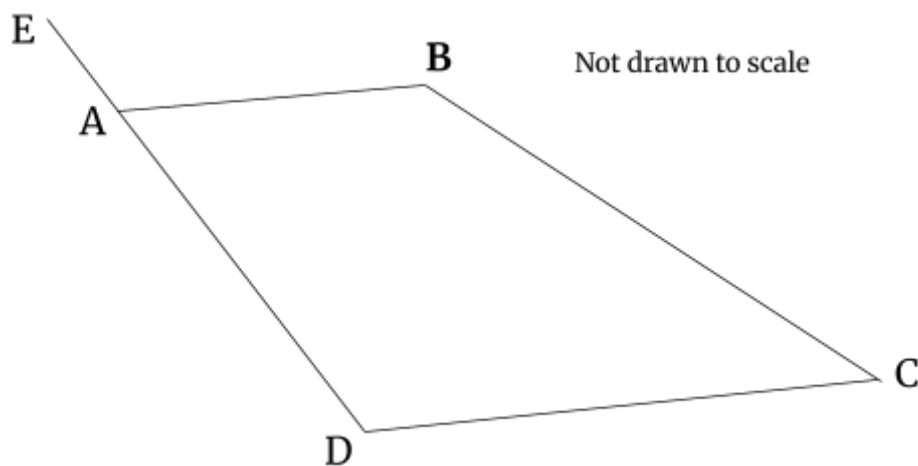
7. ABCD is a quadrilateral with the following angles:

$$\angle ABC = 152^\circ$$

$$\angle BCD = 47^\circ$$

$$\angle ADC = 121^\circ$$

EAD is a straight line.



Find angle EAB.

[3]

8. Calculate the area of a circle of diameter 4.8cm. Give your answer to 1 decimal place. [3]

9. A bag contains 250 beads of various colours. A single bead is picked at random from the bag. The table shows the probability of the selected bead being a given colour.

Blue	Red	Green	Yellow
0.42	0.34		

a. There are 35 yellow beads in the bag. Complete the table. [2]

A bead is picked at random and replaced in the bag, then a second bead is picked.

b. Calculate the probability that the beads are one red, one blue in that order. [2]