

RELATIONSHIPS HOMEWORK 3

Non calculator:

Solve the equation

$$\frac{2x}{3} - \frac{5}{6} = 2x.$$

Give your answer in its simplest form.

3

Calculator

A pollen sample weighs 12 grams
and contains 1.5×10^9 pollen grains.



Calculate the weight of **one** pollen grain in grams.
Give your answer in scientific notation.

2

Challenge Question (Non-calculator):

Charlie is making costumes for a school show.
One day he made 2 cloaks and 3 dresses.
The total amount of material he used was 9.6 square metres.

(a) Write down an equation to illustrate this information.

1

(b) The following day Charlie made 3 cloaks and 4 dresses.
The total amount of material he used was 13.3 square metres.
Write down an equation to illustrate this information.

1

(c) Calculate the amount of material required to make one cloak and the amount of material required to make one dress.

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