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. **4**

Answers:

Choosing *c* for the amount of material in one cloak and *d* for the amount of material in one dress:

(a) $2c + 3d = 9.6$

(b) $3c + 4d = 13.3$

(c)   One cloak: 1.5 m^2. One dress: 2.2 m^2.