

## Using a formula 1

1. A classroom can hold 30 chairs. How many chairs are needed for

- (a) 3 classrooms                      (b) 10 classrooms      (c)  $n$  classrooms.

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2. Use question 1 to write **a formula** to work out the total number of chairs (**T**) needed for (**n**) classrooms.

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3. Use the formula  $T = 4n$  to find the value of T when :

- (a)  $n = 3$

- (b)  $n = 9$

- (c)  $n = 20$

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4. Use the formula  $P = 3n + 5$  to find the value of P when :

- (a)  $n = 2$

- (b)  $n = 5$

- (c)  $n = 12$

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5. The cost (C) pounds, of hiring a hall for (h) hours is

$$\mathbf{C = 4h + 20}$$

(i) What does the 4 represent in this formula ? .....

(ii) What could the 20 represent here? .....

(iii) The hall costs £44 to hire. For how many hours was the hall hired for?

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