

Using a formula 2

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 (**T**) of chairs needed for (**n**) classrooms.

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3. Use the formula $T = 4n + 1$ to find the value of T when :

- (a) $n = 3$ (b) $n = 9$ (c) $n = 4.5$

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4. Use the formula $T = 20n + 50$ to find the value of T when :

- (a) $n = 5$ (b) $n = 10$ (c) $n = -2$

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5. Use the formula $C = 12 + 5w$ to find the value of C when :

- (a) $w = 2$ (b) $w = 30$ (c) $w = -5$

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6. The cost (C) of hiring a hall for (h) hours is **$C = 4h + 20$**

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

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